### NATIONAL TRANSPORTATION SAFETY BOARD Office of Aviation Safety Washington D.C. 20594

### Meteorological Factual Report DCA01MM022

### A. ACCIDENT

Location: About 16.2 Nautical Miles South-Southeast of Honolulu, Hawaii.

Date: February 9, 2001

Time: 2330 UTC

Vessel: Collision of the Submarine, USS Greenville, and the Japanese Fisheries

Training Vessel, EHIME MARU

### **B. WEATHER GROUP**

A Weather Group was not established.

### C. DETAILS OF INVESTIGATION

Note: All times are stated as Coordinated Universal Time (UTC) based on the 24-hour clock unless otherwise noted. All heights above mean sea level (MSL) unless noted. Heights in surface weather observations above ground level (AGL). All directions with reference to true north unless noted. Z = UTC. Hawaii Standard Time (HST) = Z minus 10 hours.

McIDAS - Man computer Interactive Data Access System. McIDAS is an interactive meteorological analysis and data management computer system. McIDAS is administered by personnel at the Space Science and Engineering Center at the University of Wisconsin at Madison. Data are accessed and reviewed on a Hewlett Packard 9000/C110 Workstation running McIDAS-X software.

Note: Accident site is located at 21:05:30 (degrees: minutes: seconds) north latitude and 157:49:06 west longitude.

**Surface Weather Observations** 

### Honolulu, Hawaii (PHNL) February 9, 2001

2253Z ... Winds 050 degrees at 7 knots; wind direction 020 degrees variable 080 degrees; visibility 10 miles; few clouds at 2,800 feet (0 to 2/8 cloud coverage), ceiling 4,500 feet broken (5/8 to 7/8 cloud coverage); temperature 27 degrees C; dew point 21 degrees C; rain showers vicinity all quadrants.

2353Z ... Winds 070 degrees at 12 knots; visibility 10 miles; few clouds at 2,500 feet (0 to 2/8 cloud coverage), ceiling 7,500 feet broken (5/8 to 7/8 cloud coverage); temperature 27 degrees C; dew point 20 degrees C; rain showers vicinity northeast.

PHNL is located about 16.2 nautical miles north-northwest of the accident site.

Attachments 1 and 2 ... PHNL Surface Weather Observations forms.

### Data from the Naval Research Laboratory (NRL), Monterey, California (http://www.nrlmry.navy.mil/)

### NRL Monterey Scatterometer Winds\*\*

February 9, 2001, 1856Z ... Data plot showing winds easterly at 15 to 20 knots offshore Oahu.

February 10, 2001, 1746Z ... Data plot showing winds easterly at 10 to 15 knots offshore Oahu.

Attachments 3 and 4 ... Plot of scatterometer wind data.

\*\*The European Remote Sensing Satellite (ERS-1) carries an active microwave scatterometer with the capability to retrieve surface wind vectors (both direction and speed) over a 500 kilometers swath. The products displayed on the NRL web site are provided via cooperative work with **Dr Paul Chang NOAA/NESDIS** and aimed at researchers interested in the western Pacific and Indian Ocean basins. Plots covering both basins are updated four (4) times per day and contain the latest 18 hours of scatterometer winds available. Wind vectors are plotted in the normal meteorological wind barb notation and have also been color coded according to the color wedge in the upper right hand corner to quickly aid the viewer's search for high wind domains. The color table has been purposely broken up into numerous 5 and 10 knot regimes, so the viewer can rapidly identify regions experiencing winds within a certain wind speed range (e.g., winds between 20-25 knots).

### NRL Monterey SSM/I Composite2 Images\*\*\*

February 9, 2001, 1905Z ... Data showing wind speeds 15 to 20 knots offshore Oahu. February 10, 2001, 0359Z ... Data showing wind speeds 15 to 20 knots offshore Oahu.

Attachments 5 and 6 ... SSM/I Composite2 Images.

\*\*\*These composites show surface wind speed and integrated water vapor from the Special Sensor Microwave Imager (SSM/I) aboard the Defense Meteorological Satellite Program (DMSP) satellites. Also shown are images from the geostationary satellites that cover the same area. Depending on the area, geostationary images from the U.S. GOES, the Japanese GMS, or the European Meteosat satellites are shown. The surface wind speed (no direction) is derived from the ocean surface roughness that is sensed by the SSM/I. It is not valid for land, coastlines (within about 25 nautical miles of the coastline), or areas of precipitation (blacked-out on images). The integrated water vapor shows the vapor content from the surface of the ocean to the top of the atmosphere. It does not give moisture at a specific level. POC: Jeff Hawkins, Tom Lee.

### Weather Radar Data

Doppler weather radar data were obtained for the Molokai WSR-88D radar (PHMO). Images of Base Reflectivity and Base Velocity were provided by the National Weather Service. The accident site is located about 265 degrees at 67 kilometers (36.2 nautical miles) from the PHMO antenna. The elevation of the PHMO antenna is 1,429 feet. At the accident site the beam width and beam center are 3,647 feet and 4,217 feet, respectively.

Attachments 7 - 12 ... Base Reflectivity Images at 0.5 degree elevation angle; times 2317Z, 2322Z, 2327Z, 2332Z, 2337Z, and 2342Z; reflectivity in dBZ\*\*; see color bar in Attachment 12A for dBZ values.

The images show no weather radar echoes within about an 8 kilometers (4.3 nautical miles) radius of the accident site.

### \*\*VIP/DBZ Conversion Table

NWS VIP ... National Weather Service Video Integrator and Processor Level. WSR-88D LVL ... WSR-88D Doppler Weather Radar Level. PREC MODE dBZ ... Precipitation Mode dBZ. RAINFALL .. Rainfall in inches per hour.

NWS VIP	WSR-88D LVL	PREC MODE DBZ	RAINFALL
0	0	<5	
	1	5 to 9	
	2	10 to 14	
1	3	15 to 19	.01 in/hr
Very Light	4	20 to 24	.02 in/hr
	5	25 to 29	.04 in/hr
2	6	30 to 34	.09 in/hr
Light to Moderate	7	35 to 39	.21 in/hr
3	8	40 to 44	.48 in/hr
Strong			
4	9	45 to 49	1.10 in/hr
Very Strong			
5	10	50 to 54	2.49 in/hr
Intense			
6	11	55 to 59	>5.67 in/hr
Extreme	12	60 to 64	
	13	65 to 69	
	14	70 to 74	
	15	GTE 75	

Attachments 13 - 18 ... Base Velocity Images at 0.5 degree elevation angle; times 2317Z, 2322Z, 2327Z, 2337Z, and 2342Z; radial velocity (plus away from the radar and minus towards the radar) in knots; see color bar in Attachment 18A for values of radial velocity.

### **Satellite Data (Terra MODIS and GOES)**

\*\*MODIS data were reviewed using McIDAS.

Attachments 19 and 20 ... MODIS images for 2105Z; 250 meters resolution; band = 1 and 2. Images show convection northwest of the accident site and clouds in the area of the accident.

\*\*MODIS (or Moderate Resolution Imaging Spectroradiometer) is the key instrument aboard the Terra (EOS AM-1) satellite. Terra MODIS is viewing the entire Earth's surface every 1 to 2 days, acquiring data in 36 spectral bands, or groups of wavelengths (see MODIS Technical Specifications). These data, along with data from a second MODIS (which is being developed for the Aqua satellite), will improve our understanding of global dynamics and processes occurring on the land, in the oceans, and in the lower atmosphere. MODIS is playing a vital role in the development of validated, global, interactive Earth

system models able to predict global change accurately enough to assist policy makers in making sound decisions concerning the protection of our environment. (http://ltpwww.gsfc.nasa.gov/MODIS/MODIS.html).

Geostationary Operational Environmental Satellite (GOES) 10 data were reviewed using McIDAS.

Attachment 21 .... GOES visible images (3 panel) for 2315Z, 2330Z, and 2345Z; 1 kilometer resolution; accident site noted by red box (*Acc Site*).

The images show clouds in the area of the accident site.

Attachment 22 .... GOES Channel 4 infrared images (3 panel) for 2315Z, 2330Z, and 2345Z; 1 kilometer (blow up) resolution; accident site noted by yellow box (*Acc Site*).

The images show high clouds (above 20,000 feet) in the area of the accident.

### **Astronomical Data**

For accident site and a time of 2330Z on February 9, 2001.. Altitude of the sun ... 52.8 degrees. Bearing to sun ... 198.0 degrees.

### **Pertinent National Weather Service Forecasts**

Coastal Waters Forecasts Issued by the National Weather Service Forecast Office in Honolulu, Hawaii

### <u>Issued 2200Z Thursday 2/8/2001 (1200 HST Thursday 2/8/2001)</u>

Caution is advised for all Hawaiian waters due to strong and gusty winds associated with isolated thunderstorms.

This afternoon ... Variable winds 10 knots seas 2 feet. Winds southeast over waters exposed to the southeast. Scattered showers and isolated thundershowers. Northwest swell near 5 feet slowly decreasing.

Tonight ... Variable winds 10 knots seas 2 feet. Scattered showers and isolated thundershowers.

Friday ... Southeast winds 10 knots seas 2 feet around Kauai and Oahu. A few showers. Isolated heavy showers.

Channels between the islands..

This afternoon ... Variable winds 15 knots seas 4 feet.

Tonight thru Friday ... Variable winds 15 knots seas 4 feet.

### Issued 0200Z Friday 2/9/2001 (1600 HST Thursday 2/8/2001)

Caution is advised for all Hawaiian waters due to strong and gusty winds associated with isolated thunderstorms.

This afternoon ... Variable winds 10 knots seas 2 feet. Winds southeast over waters exposed to the southeast. Scattered showers and isolated thundershowers.

Tonight ... Variable winds 10 knots seas 2 feet. Scattered showers and isolated thundershowers.

Friday ... Southeast winds 10 knots seas 2 feet around Kauai and Oahu. A few showers. Isolated heavy showers.

Channels between the islands...

This afternoon ... Variable winds 15 knots seas 4 feet.

Tonight thru Friday ... Variable winds 15 knots seas 4 feet.

### <u>Issued 0400Z Friday 2/9/2001 (1800 HST Thursday 2/8/2001)</u>

Caution is advised for all Hawaiian waters due to strong and gusty winds associated with isolated thunderstorms.

Tonight ... Variable winds 10 knots seas 2 feet. Scattered showers and isolated thundershowers.

Friday thru Saturday ... Southeast winds 10 knots seas 2 feet. Scattered showers and isolated thundershowers.

Channels between the islands...

Tonight ... Variable winds 15 knots seas 4 feet.

Friday thru Saturday ... East winds 15 knots seas 4 feet.

### <u>Issued 1000Z Friday 2/9/2001 (0000 HST Friday 2/9/2001)</u>

Caution is advised for all Hawaiian waters due to strong and gusty winds associated with isolated thunderstorms.

Today ... Southeast winds 10 knots seas 2 feet. Scattered showers and isolated thundershowers.

Channels between the islands...

Today ... east winds 15 knots seas 4 feet.

### Issued 1600Z Friday 2/9/2001 (0600 HST Friday 2/9/2001)

Caution is advised for waters around Kauai and Oahu due to strong and gusty winds associated with isolated thunderstorms.

Today ... Southeast winds 10 knots seas 2 feet. Scattered showers and isolated thundershowers.

Friday thru Saturday ... Southeast winds 10 knots seas 2 feet. Scattered showers and thundershowers.

Channels between the islands...

Today ... East winds 15 knots seas 4 feet.

### <u>Issued 1615Z Friday 2/9/2001 (0615 HST Friday 2/9/2001)</u>

Caution is advised for gusty trade winds.

Caution is advised for waters around Kauai and waters south of islands from Kauai to Maui due to strong gusty winds associated with isolated thunderstorms.

Today .. East winds to 20 knots seas to 8 feet. Scattered showers and isolated thunderstorms.

Channels between the islands..

Today ... East winds 25 knots seas 12 feet.

### <u>Issued 2200Z Friday 2/9/2001 (1200 HST Friday 2/9/2001)</u>

Caution is advised for gusty east and southeast winds.

This afternoon... East and southeast winds to 20 knots seas to 8 feet. Scattered showers.

Channels between the islands..

East winds 25 knots seas 12 feet.

Attachments 23 – 48 ... Marine Forecasts issued by National Weather Service Forecast Office in Honolulu, Hawaii.

Gregory D. Salottolo

National Resource Specialist

Meteorology April 17, 2001

## ATTACHMENTS Meteorological Factual Report DCA01MM022

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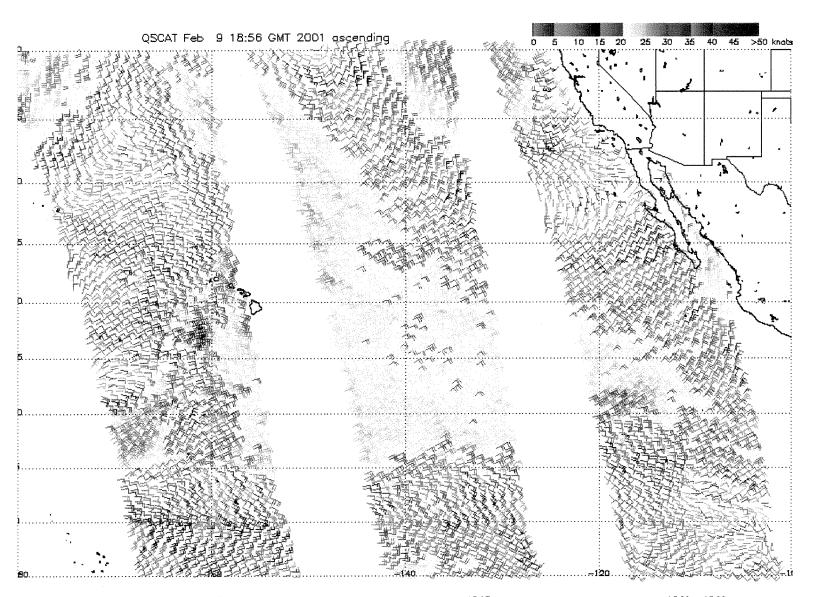
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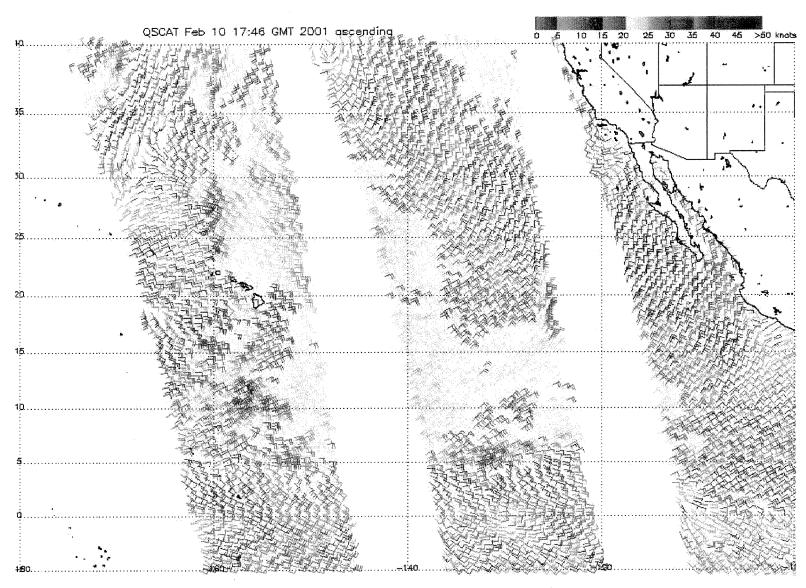
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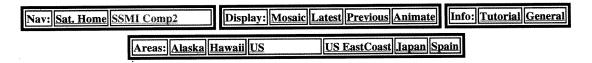
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Note: 1) Times are GMT 2)Times correspond to 25N; right swath edge — time is right swath for overlapping swaths at 25N 3) Feb. 9 18:56 GMT 2001—22 hrs

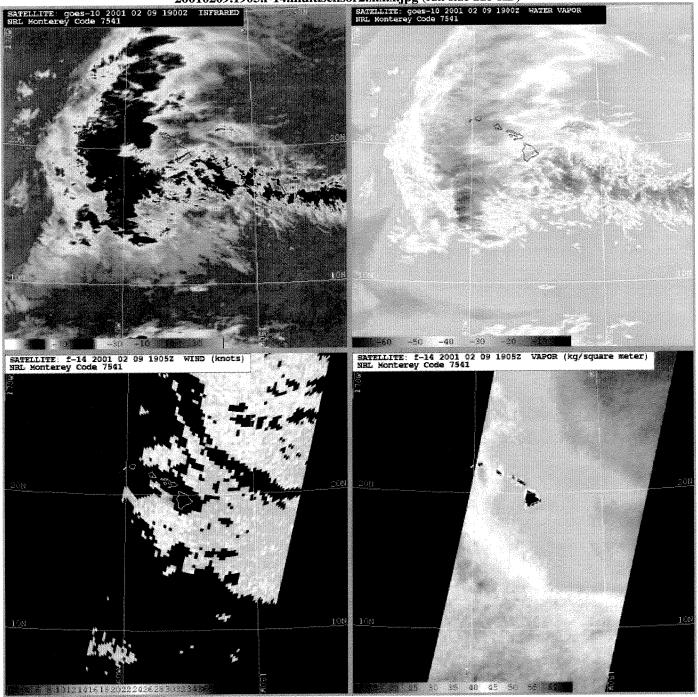
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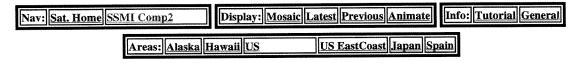
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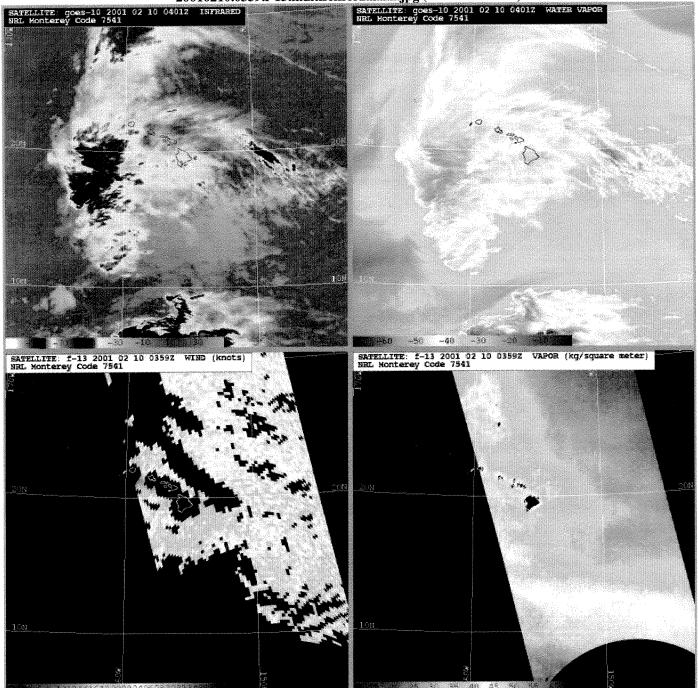
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Projects	Trop Cyclones	Color Composite	SSMI- Comp2	Tropics	Cloud Winds	Scatt Winds	Long Movies	Cloud Classification	Java

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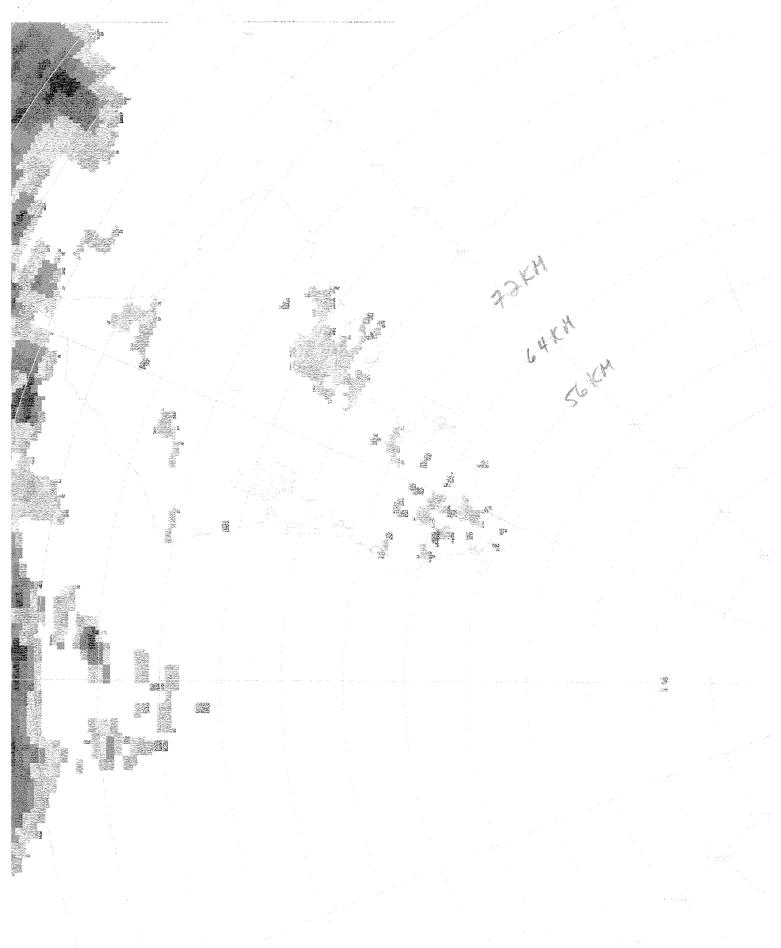


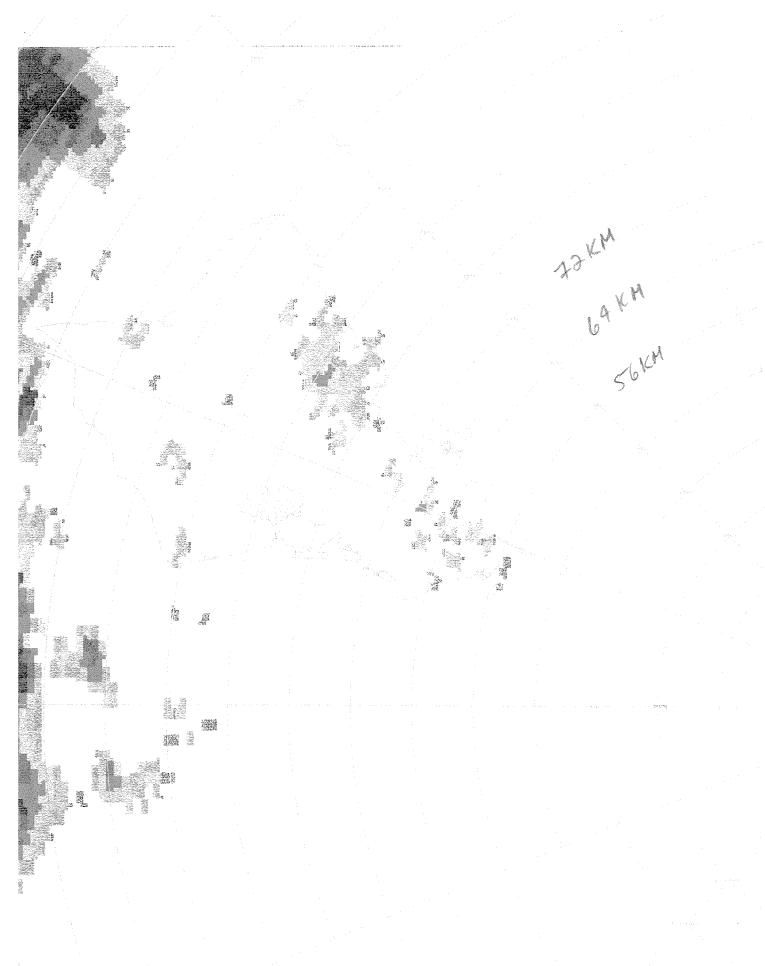
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13 KM

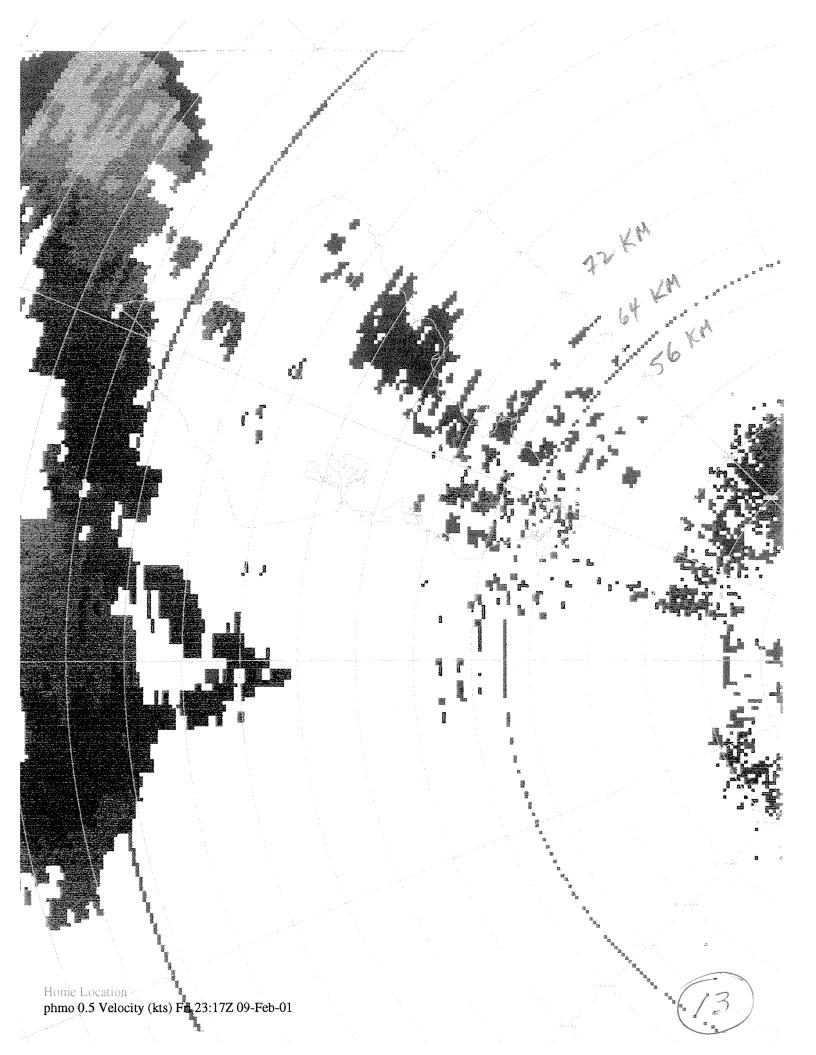
29 KM Home Location phmo 0.5 Reflectivity (dBZ) Fri 23:37Z 09-Feb-01

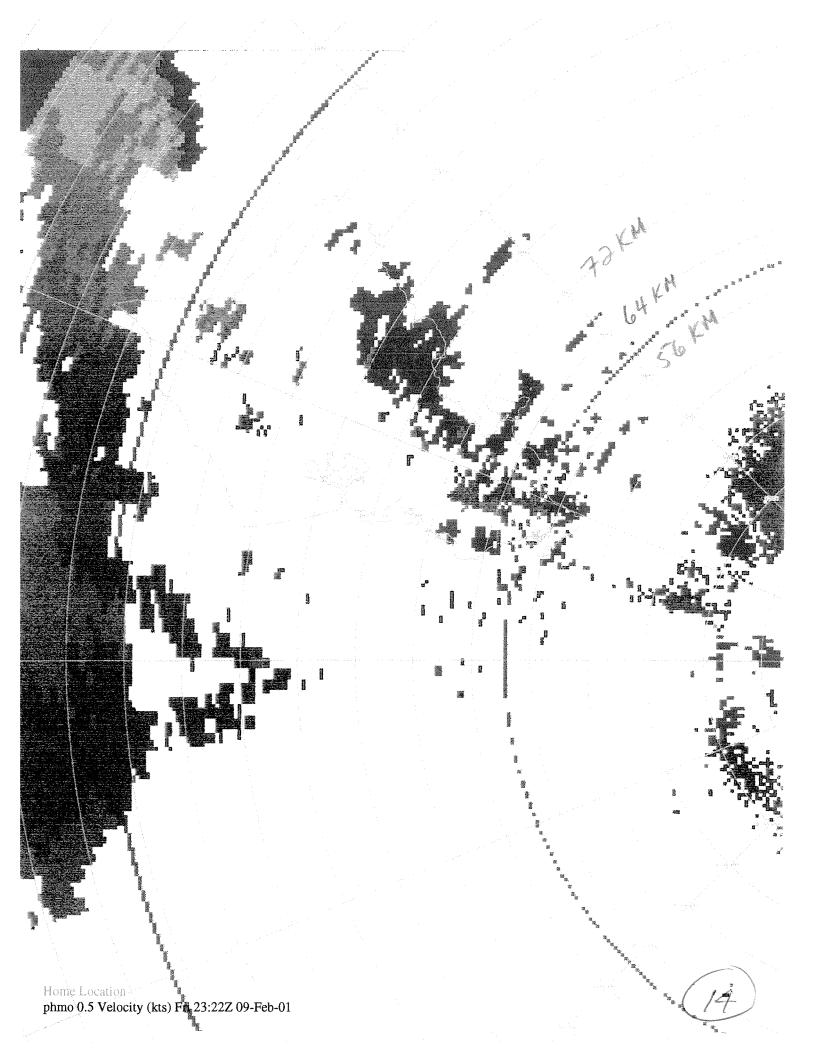
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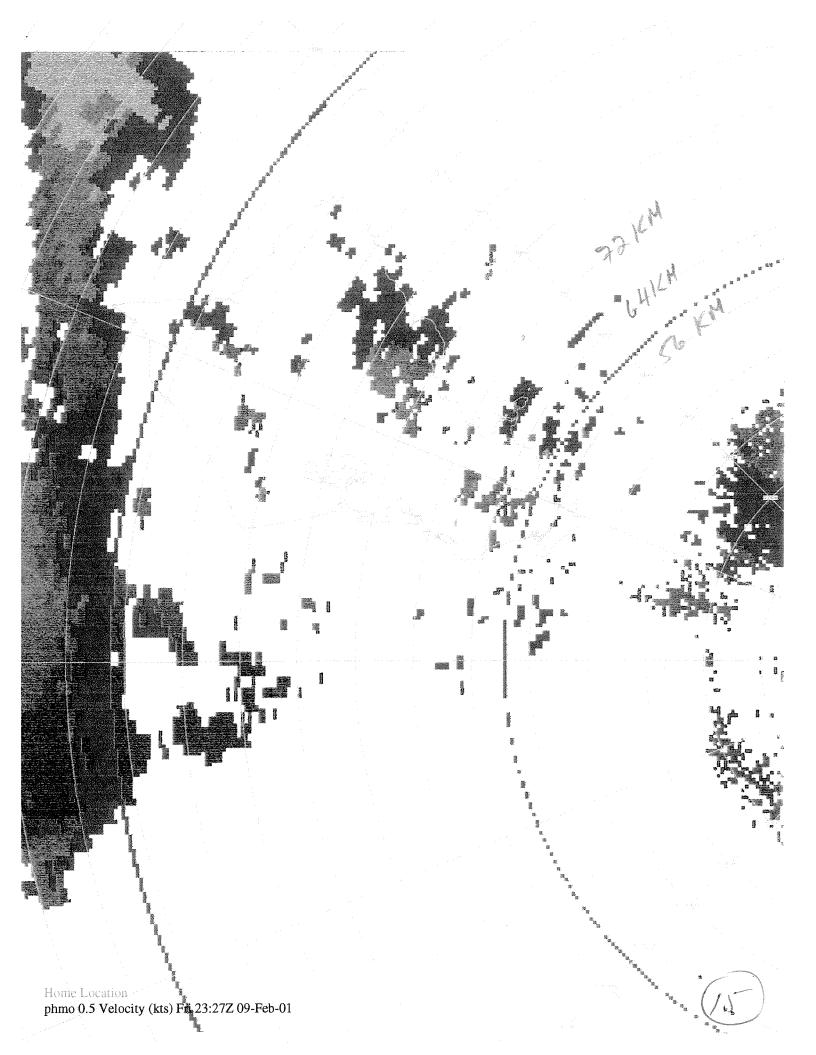
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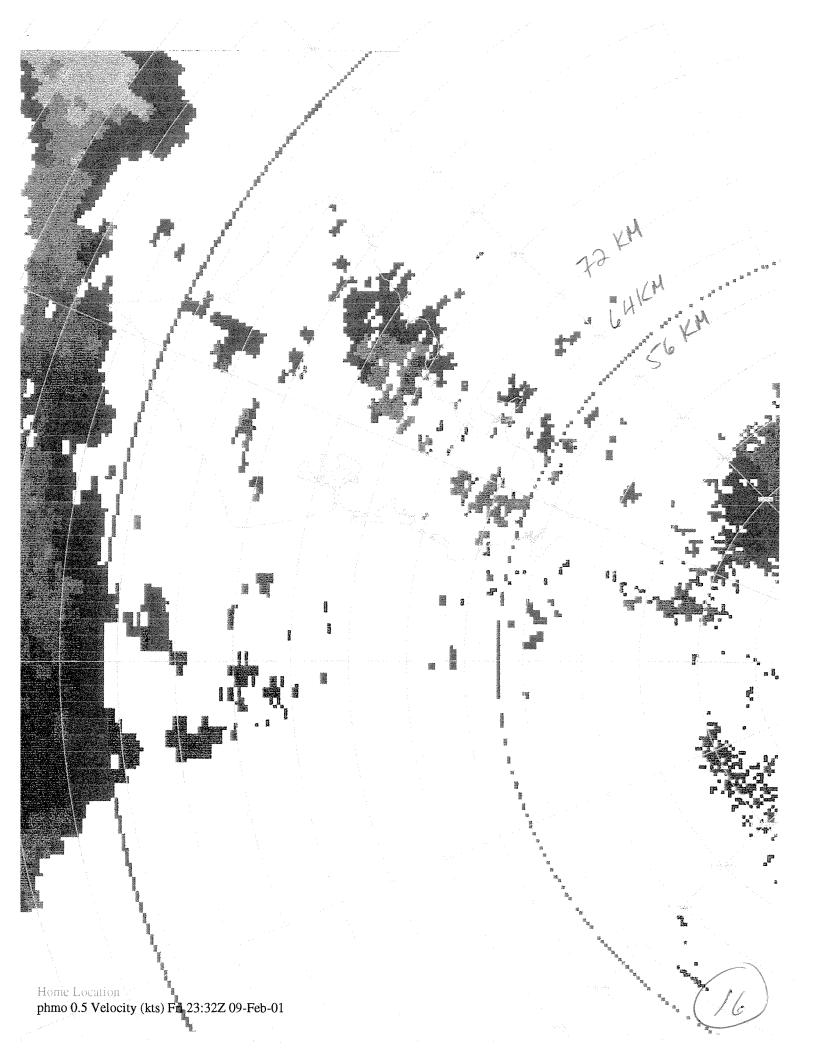


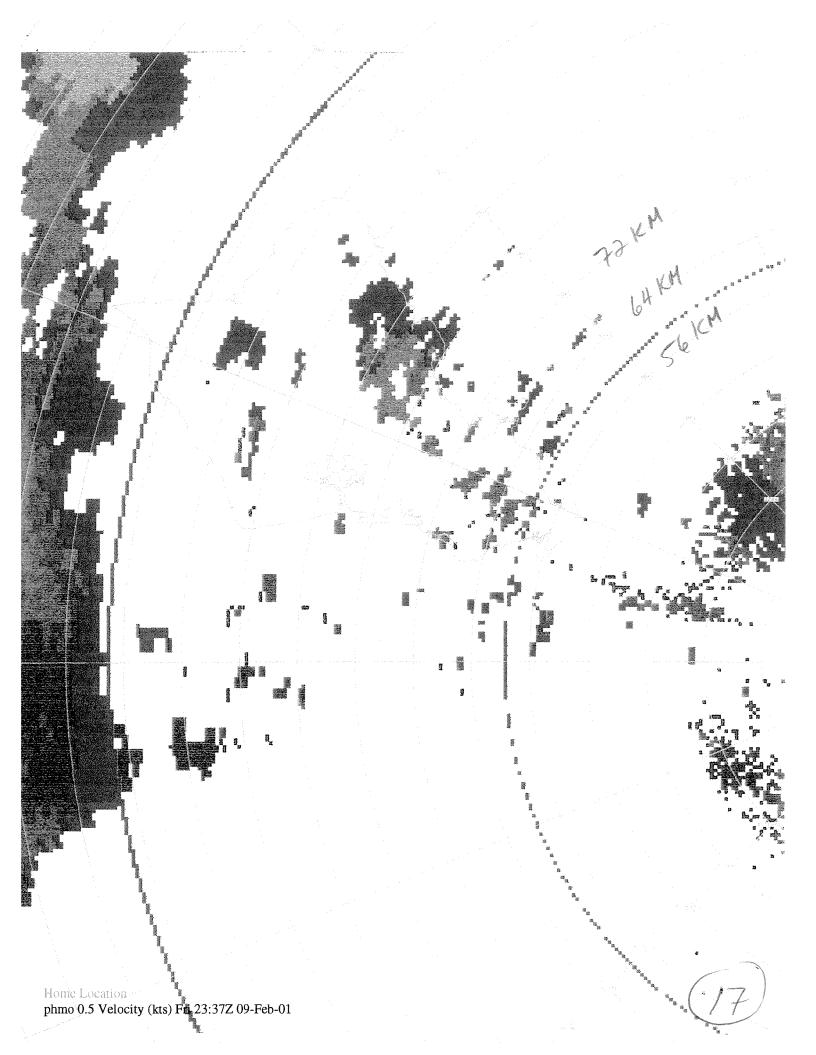
(12A)





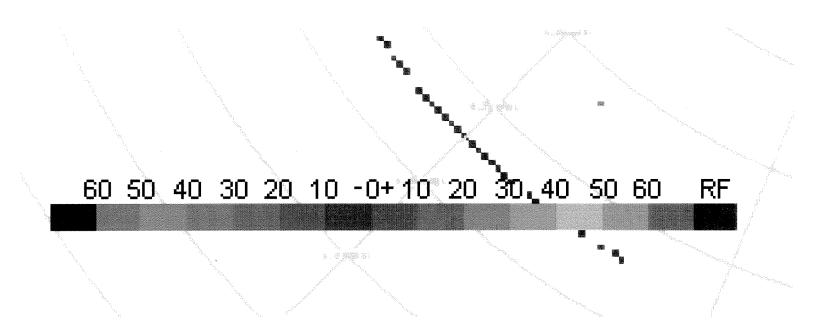






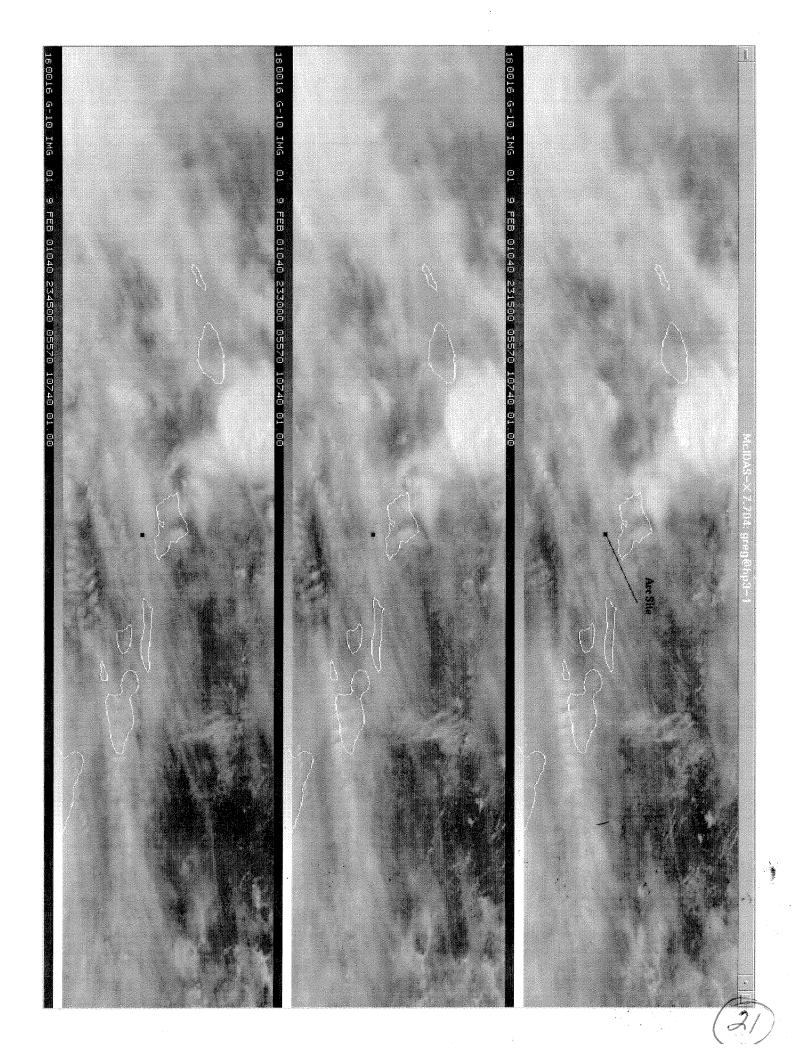


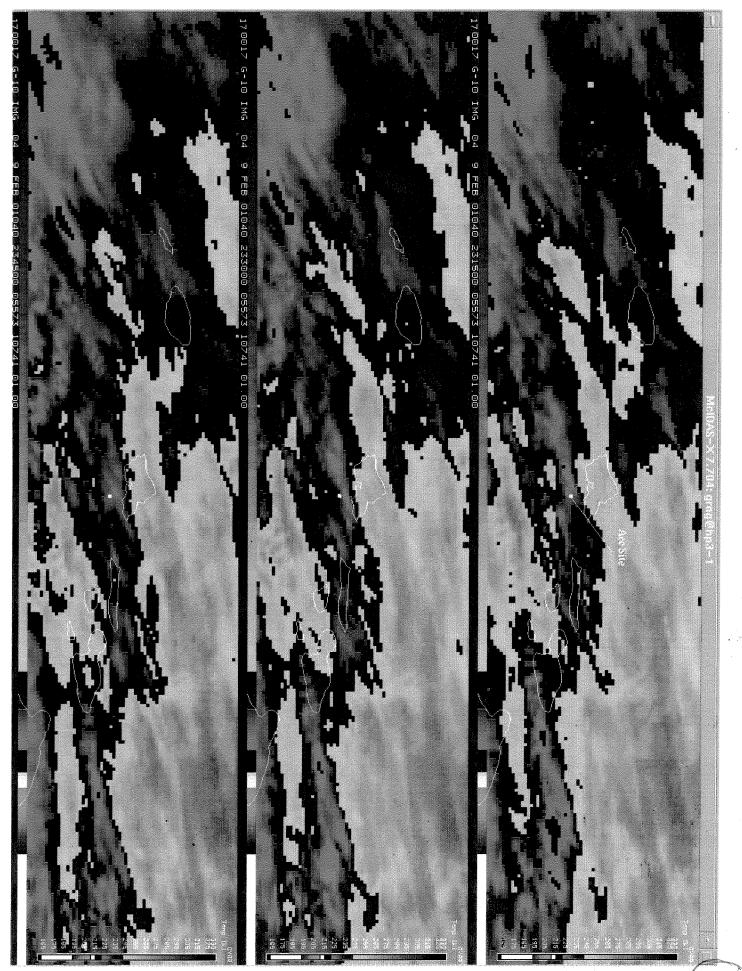
# Radial Velocity (Knots)



(19)







CHANNELS BETWEEN THE ISLANDS

- . I'ONIGHT... VARIABLE WINDS 15 KT SEAS 4 FT EXCEPT EAST 15 TO 20 KT SEAS 4 TO 8 FT IN ALENUIHAHA CHANNEL.
- .THURSDAY THRU FRIDAY...VARIABLE WINDS 15 KT SEAS 4 FT EXCEPT EAST WINDS 20 TO 25 KT SEAS 8 TO 12 FT IN ALENUIHAHA CHANNEL.

\$\$

PHZ190-081000-

OUTLOOK FOR HAWAIIAN WATERS

.SATURDAY THRU MONDAY...EAST WINDS 15 TO 25 KT SEAS 4 TO 12 FT.

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PHZ180-081000-

OFFSHORE WATERS WITHIN 1000 NM OF HONOLULU UP TO 30N.

WARNINGS.

GALE. LOW 1009 MB NEAR 26N 157W MOVING NW SLOWLY. TROUGH THRU 30N 154W. WINDS 25 TO 35 KT SEAS 12 TO 22 FT WITHIN 400 NM NORTH SEMICIRCLE OF LOW. ISOLATED MODERATE TSTMS IN AREA BETWEEN 20N AND 23N BOUNDED BY 145W AND 148W...AND WITHIN 90 NM OF LINE THRU 30N 152W 25N 148W. FORECAST BY 091200 UTC LOW 1016MB 30N 160W AND ASSOCIATED WINDS 20 KT OR LESS SEAS 8 FT OR LESS.

SIGNIFICANT WEATHER FEATURES AND FORECAST

MOSTLY EAST WINDS 20 TO 30 KT SEAS 8 TO 18 FT ELSEWHERE NORTH OF 26N EAST OF 173W.

WINDS 20 KT OR LESS SEAS 8 FT OR LESS OVER REST OF AREA.

ITCZ...ISOLATED MODERATE TSTMS BETWEEN 06N AND 09N BOUNDED BY 150W AND 168W.

\$\$

PHZ195-081000-

OUTLOOK FOR OFFSHORE WATERS

.SATURDAY THRU MONDAY...WINDS 20 KT OR LESS SEAS 8 FT OR LESS... EXCEPT WINDS 25 KT SEAS 12 FT IN AREA NORTH OF 25N EAST OF 155W.

\$\$

FZHW50 PHFO 080941 COASTAL AND OFFSHORE FORECAST FOR HAWAII 12 AM HST THU FEB 08 2001

HAWAIIAN COASTAL WATERS WITHIN 100 NAUTICAL MILES INCLUDING THE HAWAIIAN ISLANDS HUMPBACK WHALE NATIONAL MARINE SANCTUARY.

PHZ100-PHZ105-081600-

SYNOPSIS...LOW 400 NM NORTH OF HONOLULU MOVING NORTHWEST 15 KT.

\$\$ PHZ150-081600-12 AM HST THU FEB 08 2001



- ...HIGH SURF ADVISORY REMAINS IN EFFECT FOR NORTH AND EAST FACING SHORES OF ALL HAWAIIAN ISLANDS...
- ...CAUTION IS ADVISED IN KAHULUI AND HILO HARBORS DUE TO NORTHEAST SWELL THAT MAY CAUSE HARBOR SURGES...

### COASTAL WATERS

.TODAY...VARIABLE WINDS 10 KT SEAS 2 FT EXCEPT SOUTHEAST WINDS 15 KT SEAS 4 FT WATERS AROUND MAUI AND THE BIG ISLAND. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS WATERS AROUND MAUI AND THE BIG ISLAND...A FEW SHOWERS ELSEWHERE. NORTHWEST SWELL NEAR 6 FT. .TONIGHT...VARIABLE WINDS 10 KT SEAS 2 FT EXCEPT EAST TO SOUTHEAST WINDS 10 TO 15 KT SEAS 2 TO 4 FT WATERS AROUND MAUI AND THE BIG ISLAND. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS WATERS AROUND MAUI AND THE BIG ISLAND...A FEW SHOWERS ELSEWHERE. NORTHWEST SWELL SLOWLY DIMINISHING.

.FRIDAY...VARIABLE WINDS 10 KT SEAS 2 FT EXCEPT EAST WINDS 15 TO 20 KT SEAS 4 TO 8 FT WATERS AROUND MAUI AND THE BIG ISLAND. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS WATERS FROM MOLOKAI WESTWARD...A FEW SHOWERS ELSEWHERE.

### \$\$

PHZ130-081600-

CHANNELS BETWEEN THE ISLANDS

- .TODAY...VARIABLE WINDS 15 KT SEAS 4 FT EXCEPT EAST 15 TO 20 KT SEAS 4 TO 8 FT IN ALENUIHAHA CHANNEL.
- .TONIGHT THRU FRIDAY...VARIABLE WINDS 15 KT SEAS 4 FT EXCEPT EAST WINDS 20 TO 25 KT SEAS 8 TO 12 FT IN ALENUIHAHA CHANNEL.

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PHZ190-081600-

OUTLOOK FOR HAWAIIAN WATERS

.SATURDAY THRU MONDAY...EAST TO SOUTHEAST WINDS 15 TO 25 KT SEAS 4 TO 12 FT.

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PHZ180-081600-

OFFSHORE WATERS WITHIN 1000 NM OF HONOLULU UP TO 30N.

WARNINGS. GALE.

LOW 1010 MB NEAR 26N 157W MOVING NW 15 KT. TROUGH FROM LOW THRU 30N 154W NEARLY STATIONARY. WINDS 30 TO 40 KT SEAS 18 TO 25 FT WITHIN 400 NM OF LOW NORTHEAST QUADRANT. WINDS 25 TO 30 KT SEAS 12 TO 18 FT ELSEWHERE WITHIN 400 NM OF LOW NORTHEAST SEMICIRCLE. ISOLATED MODERATE TSTMS WITHIN 120 NM OF LINE THRU 30N 152W 27N 149W 23N 151W. FORECAST BY 09/1800 UTC LOW AND WINDS DISSIPATED.

SIGNIFICANT WEATHER FEATURES AND FORECAST

EAST WINDS 20 TO 30 KT SEAS 8 TO 18 FT IN AREA BETWEEN 08N AND 18N EAST OF 155W.

WINDS 20 KT OR LESS SEAS 8 FT OR LESS OVER REST OF AREA.

ISOLATED MODERATE TSTMS WITHIN 90 NM OF LINE THRU 24N 169W 17N 175W.

ITCZ...ISOLATED MODERATE TSTMS BETWEEN 07N AND 11N BOUNDED BY 152W



AND 172W.

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PHZ195-081600-

OUTLOOK FOR OFFSHORE WATERS

.SATURDAY THRU MONDAY...WINDS 20 KT OR LESS SEAS 8 FT OR LESS... EXCEPT WINDS 25 KT SEAS 12 FT IN AREA BETWEEN 08N AND 20N EAST OF 155W.

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FZHW50 PHFO 081542 COASTAL AND OFFSHORE FORECAST FOR HAWAII 6 AM HST THU FEB 08 2001

HAWAIIAN COASTAL WATERS WITHIN 100 NAUTICAL MILES INCLUDING THE HAWAIIAN ISLANDS HUMPBACK WHALE NATIONAL MARINE SANCTUARY.

PHZ100-PHZ105-082200-

SYNOPSIS...LOW 425 NM NORTH OF HONOLULU MOVING NORTHWEST 10 KT.

\$\$ PHZ150-082200-6 AM HST THU FEB 08 2001

- ...HIGH SURF ADVISORY REMAINS IN EFFECT FOR NORTH AND EAST FACING SHORES OF ALL HAWAIIAN ISLANDS...
- ...CAUTION IS ADVISED IN KAHULUI AND HILO HARBORS DUE TO NORTHEAST SWELL THAT MAY CAUSE HARBOR SURGES...
- ...CAUTION IS ADVISED FOR WATERS AROUND THE BIG ISLAND DUE TO STRONG AND GUSTY WINDS ASSOCIATED WITH A FEW THUNDERSTORMS...

### COASTAL WATERS

.TODAY...VARIABLE WINDS 10 KT SEAS 2 FT EXCEPT SOUTHEAST WINDS 15 KT SEAS 4 FT WATERS AROUND MAUI AND THE BIG ISLAND. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS. NORTHWEST SWELL NEAR 6 FT. .TONIGHT...VARIABLE WINDS 10 KT SEAS 2 FT EXCEPT EAST TO SOUTHEAST WINDS 10 TO 15 KT SEAS 2 TO 4 FT WATERS AROUND MAUI AND THE BIG ISLAND. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS. NORTHWEST SWELL SLOWLY DIMINISHING.

.FRIDAY...VARIABLE WINDS 10 KT SEAS 2 FT EXCEPT EAST WINDS 15 TO 20 KT SEAS 4 TO 8 FT WATERS AROUND MAUI AND THE BIG ISLAND. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS.

\$\$

PHZ130-082200-

CHANNELS BETWEEN THE ISLANDS

.TODAY...VARIABLE WINDS 15 KT SEAS 4 FT EXCEPT EAST 15 TO 20 KT SEAS 4 TO 8 FT IN ALENUIHAHA CHANNEL.

.TONIGHT THRU FRIDAY...VARIABLE WINDS 15 KT SEAS 4 FT EXCEPT EAST WINDS 15 TO 20 KT SEAS 4 TO 8 FT IN ALENUIHAHA CHANNEL.

>> PHZ190-082200-



OUTLOOK FOR HAWAIIAN WATERS .SATURDAY THRU MONDAY...EAST TO SOUTHEAST WINDS 15 TO 25 KT SEAS 4 TO 12 FT.

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PHZ180-082200-

OFFSHORE WATERS WITHIN 1000 NM OF HONOLULU UP TO 30N.

WARNINGS. GALE.

LOW 1012 MB NEAR 27N 158W MOVING NW 10 KT. TROUGH FROM LOW THRU 30N 156W MOVING WEST SLOWLY. WINDS 25 TO 35 KT SEAS 12 TO 22 FT WITHIN 400 NM OF LOW NORTHEAST SEMICIRCLE. ISOLATED MODERATE TSTMS WITHIN 90 NM OF LINE THRU 30N 154W 29N 149W 26N 149W 19N 156W. FORECAST BY 09/1800 UTC LOW AND WINDS DISSIPATED.

SIGNIFICANT WEATHER FEATURES AND FORECAST

RIDGE THRU 30N 175W 26N 180 NEARLY STATIONARY.

EAST WINDS 20 TO 30 KT SEAS 8 TO 18 FT IN AREA BETWEEN 08N AND 18N EAST OF 155W.

WINDS 20 KT OR LESS SEAS 8 FT OR LESS OVER REST OF AREA.

ISOLATED MODERATE TSTMS WITHIN 90 NM OF 22N 171W.

ITCZ...ISOLATED MODERATE TSTMS BETWEEN 07N AND 12N BOUNDED BY 150W AND 170W.

\$\$

PHZ195-082200OUTLOOK FOR OFFSHORE WATERS

.SATURDAY THRU MONDAY...WINDS 20 KT OR LESS SEAS 8 FT OR LESS... EXCEPT WINDS 25 KT SEAS 12 FT IN AREA BETWEEN 08N AND 20N EAST OF 155W.

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FZHW50 PHFO 081757 AMD COASTAL AND OFFSHORE FORECAST FOR HAWAII 8 AM HST THU FEB 08 2001

...AMENDED FOR CANCELLATION OF HIGH SURF ADVISORY FOR EAST FACING SHORES...

HAWAIIAN COASTAL WATERS WITHIN 100 NAUTICAL MILES INCLUDING THE HAWAIIAN ISLANDS HUMPBACK WHALE NATIONAL MARINE SANCTUARY.

PHZ100-PHZ105-082200-

SYNOPSIS...LOW 425 NM NORTH OF HONOLULU MOVING NORTHWEST 10 KT.

\$\$ PHZ150-082200-



- 8 AM HST THU FEB 08 2001
- ...AMENDED...
- ...THE HIGH SURF ADVISORY FOR THE EAST FACING SHORES OF ALL HAWAIAN ISLANDS IS CANCELLED EFFECTIVE AT 8 AM HST...
- ...HIGH SURF ADVISORY REMAINS IN EFFECT FOR NORTH FACING SHORES OF ALL HAWAIIAN ISLANDS...
- ...CAUTION IS ADVISED FOR ALL HAWAIIAN WATERS DUE TO STRONG AND GUSTY WINDS ASSOCIATED WITH ISOLATED THUNDERSTORMS...

## COASTAL WATERS

.TODAY...VARIABLE WINDS 10 KT SEAS 2 FT EXCEPT SOUTHEAST WINDS 15 KT SEAS 4 FT WATERS AROUND MAUI AND THE BIG ISLAND. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS. NORTHWEST SWELL NEAR 5 FT. .TONIGHT...VARIABLE WINDS 10 KT SEAS 2 FT EXCEPT EAST TO SOUTHEAST WINDS 10 TO 15 KT SEAS 2 TO 4 FT WATERS AROUND MAUI AND THE BIG ISLAND. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS. NORTHWEST SWELL SLOWLY DIMINISHING.

.FRIDAY...VARIABLE WINDS 10 KT SEAS 2 FT EXCEPT EAST WINDS 15 TO 20 KT SEAS 4 TO 8 FT WATERS AROUND MAUI AND THE BIG ISLAND. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS.

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PHZ130-082200-

CHANNELS BETWEEN THE ISLANDS

- .TODAY...VARIABLE WINDS 15 KT SEAS 4 FT EXCEPT EAST 15 TO 20 KT SEAS 4 TO 8 FT IN ALENUIHAHA CHANNEL.
- .TONIGHT THRU FRIDAY...VARIABLE WINDS 15 KT SEAS 4 FT EXCEPT EAST WINDS 15 TO 20 KT SEAS 4 TO 8 FT IN ALENUIHAHA CHANNEL.

\$\$

PHZ190-082200-

OUTLOOK FOR HAWAIIAN WATERS

.SATURDAY THRU MONDAY...EAST TO SOUTHEAST WINDS 15 TO 25 KT SEAS 4 TO 12 FT.

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PHZ180-082200-

OFFSHORE WATERS WITHIN 1000 NM OF HONOLULU UP TO 30N.

WARNINGS. GALE.

LOW 1012 MB NEAR 27N 158W MOVING NW 10 KT. TROUGH FROM LOW THRU 30N 156W MOVING WEST SLOWLY. WINDS 25 TO 35 KT SEAS 12 TO 22 FT WITHIN 400 NM OF LOW NORTHEAST SEMICIRCLE. ISOLATED MODERATE TSTMS WITHIN 90 NM OF LINE THRU 30N 154W 29N 149W 26N 149W 19N 156W. FORECAST BY 09/1800 UTC LOW AND WINDS DISSIPATED.

SIGNIFICANT WEATHER FEATURES AND FORECAST

RIDGE THRU 30N 175W 26N 180 NEARLY STATIONARY.

EAST WINDS 20 TO 30 KT SEAS 8 TO 18 FT IN AREA BETWEEN 08N AND 18N EAST OF 155W.



WINDS 20 KT OR LESS SEAS 8 FT OR LESS OVER REST OF AREA.

ISOLATED MODERATE TSTMS WITHIN 90 NM OF 22N 171W.

ITCZ...ISOLATED MODERATE TSTMS BETWEEN 07N AND 12N BOUNDED BY 150W AND 170W.

\$\$

PHZ195-082200-

OUTLOOK FOR OFFSHORE WATERS

.SATURDAY THRU MONDAY...WINDS 20 KT OR LESS SEAS 8 FT OR LESS... EXCEPT WINDS 25 KT SEAS 12 FT IN AREA BETWEEN 08N AND 20N EAST OF 155W.

\$\$

FZHW50 PHFO 082207 COASTAL AND OFFSHORE FORECAST FOR HAWAII 12 PM HST THU FEB 08 2001

HAWAIIAN COASTAL WATERS WITHIN 100 NAUTICAL MILES INCLUDING THE HAWAIIAN ISLANDS HUMPBACK WHALE NATIONAL MARINE SANCTUARY.

PHZ100-PHZ105-090400-

SYNOPSIS...WEAKENING LOW 450 NM NORTHNORTHWEST OF HONOLULU MOVING NORTHWEST 20 KT.

\$\$ PHZ150-090400-12 PM HST THU FEB 08 2001

- ...HIGH SURF ADVISORY REMAINS IN EFFECT FOR NORTH FACING SHORES OF ALL HAWAIIAN ISLANDS...
- ...CAUTION IS ADVISED FOR ALL HAWAIIAN WATERS DUE TO STRONG AND GUSTY WINDS ASSOCIATED WITH ISOLATED THUNDERSTORMS...

## COASTAL WATERS

.THIS AFTERNOON...VARIABLE WINDS 10 KT SEAS 2 FT. WINDS SOUTHEAST OVER WATERS EXPOSED TO THE SOUTHEAST. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS. NORTHWEST SWELL NEAR 5 FT SLOWLY DECREASING. .TONIGHT...VARIABLE WINDS 10 KT SEAS 2 FT EXCEPT EAST WINDS 10 TO 15 KT SEAS 2 TO 4 FT WATERS AROUND THE BIG ISLAND. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS.

.FRIDAY...SOUTHEAST WINDS 10 KT SEAS 2 FT AROUND KAUAI AND OAHU...VARIABLE WINDS 10 KT SEAS 2 FT AROUND MOLOKAI AND LANAI...AND EAST WINDS 10 TO 15 KT SEAS 2 TO 4 FT WATERS AROUND MAUI AND THE BIG ISLAND. A FEW SHOWERS...ISOLATED SHOWERS HEAVY.

\$\$

PHZ130-090400-

CHANNELS BETWEEN THE ISLANDS

- .THIS AFTERNOON...VARIABLE WINDS 15 KT SEAS 4 FT EXCEPT EAST 15 KT SEAS 4 FT IN ALENUIHAHA CHANNEL.
- .TONIGHT THRU FRIDAY...VARIABLE WINDS 15 KT SEAS 4 FT EXCEPT EAST WINDS 15 TO 20 KT SEAS 4 TO 8 FT IN ALENUIHAHA CHANNEL.



\$\$ PHZ190-

PHZ190-090400-

OUTLOOK FOR HAWAIIAN WATERS

.SATURDAY THRU MONDAY...EAST TO SOUTHEAST WINDS 15 TO 25 KT SEAS 4 TO 12 FT.

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PHZ180-090400-

OFFSHORE WATERS WITHIN 1000 NM OF HONOLULU UP TO 30N.

WARNINGS.

GALE.

LOW 1013 MB NEAR 29N 160W MOVING NW 20 KT AND WEAKENING. TROUGH FROM LOW THRU 23N 167W MOVING WEST SLOWLY. WINDS 25 TO 35 KT SEAS 12 TO 22 FT WITHIN NORTH OF 28N BETWEEN 161W AND 150W. ISOLATED MODERATE TSTMS BETWEEN 19N AND 23N BOUNDED BY 153W ADN 155W...AND NORTH OF 26N BETWEEN 148W AND 150W. FORECAST BY 090600 UTC LOW DISSIPATED.

SIGNIFICANT WEATHER FEATURES AND FORECAST

RIDGE THRU 30N 176W 26N 180 NEARLY STATIONARY.

EAST WINDS 20 TO 30 KT SEAS 8 TO 18 FT IN AREA NORTH OF 20N EAST OF EAST OF 150W. FORECAST AT 100600 UTC EAST WINDS 20 TO 25 KT SEAS 8 TO 12 FT NORTH OF 10N EAST OF 150W.

WINDS 20 KT OR LESS SEAS 8 FT OR LESS OVER REST OF AREA.

ITCZ...ISOLATED MODERATE TSTMS BETWEEN 08N AND 14N BOUNDED BY 152W AND 169W.

\$\$

PHZ195-090400-

OUTLOOK FOR OFFSHORE WATERS

.SATURDAY THRU MONDAY...WINDS 20 KT OR LESS SEAS 8 FT OR LESS... EXCEPT WINDS 25 KT SEAS 12 FT IN AREA BETWEEN 08N AND 20N EAST OF 155W.

\$\$

FZHW50 PHFO 082212 COASTAL AND OFFSHORE FORECAST FOR HAWAII 12 PM HST THU FEB 08 2001

HAWAIIAN COASTAL WATERS WITHIN 100 NAUTICAL MILES INCLUDING THE HAWAIIAN ISLANDS HUMPBACK WHALE NATIONAL MARINE SANCTUARY.

PHZ100-PHZ105-090400-

SYNOPSIS...WEAKENING LOW 450 NM NORTHNORTHWEST OF HONOLULU MOVING NORTHWEST 20 KT.

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PHZ150-090400-

12 PM HST THU FEB 08 2001

(29)

- ....HIGH SURF ADVISORY REMAINS IN EFFECT FOR NORTH FACING SHORES OF ALL HAWAIIAN ISLANDS...
- ...CAUTION IS ADVISED FOR ALL HAWAIIAN WATERS DUE TO STRONG AND GUSTY WINDS ASSOCIATED WITH ISOLATED THUNDERSTORMS...

#### COASTAL WATERS

- .THIS AFTERNOON...VARIABLE WINDS 10 KT SEAS 2 FT. WINDS SOUTHEAST OVER WATERS EXPOSED TO THE SOUTHEAST. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS. NORTHWEST SWELL NEAR 5 FT SLOWLY DECREASING. .TONIGHT...VARIABLE WINDS 10 KT SEAS 2 FT EXCEPT EAST WINDS 10 TO 15 KT SEAS 2 TO 4 FT WATERS AROUND THE BIG ISLAND. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS.
- .FRIDAY...SOUTHEAST WINDS 10 KT SEAS 2 FT AROUND KAUAI AND OAHU...VARIABLE WINDS 10 KT SEAS 2 FT AROUND MOLOKAI AND LANAI...AND EAST WINDS 10 TO 15 KT SEAS 2 TO 4 FT WATERS AROUND MAUI AND THE BIG ISLAND. A FEW SHOWERS...ISOLATED SHOWERS HEAVY.

\$\$

PHZ130-090400-

CHANNELS BETWEEN THE ISLANDS

- .THIS AFTERNOON...VARIABLE WINDS 15 KT SEAS 4 FT EXCEPT EAST 15 KT SEAS 4 FT IN ALENUIHAHA CHANNEL.
- .TONIGHT THRU FRIDAY...VARIABLE WINDS 15 KT SEAS 4 FT EXCEPT EAST WINDS 15 TO 20 KT SEAS 4 TO 8 FT IN ALENUIHAHA CHANNEL.

\$\$

PHZ190-090400-

OUTLOOK FOR HAWAIIAN WATERS

.SATURDAY THRU MONDAY...EAST TO SOUTHEAST WINDS 15 TO 25 KT SEAS 4 TO 12 FT.

\$\$

PHZ180-090400-

OFFSHORE WATERS WITHIN 1000 NM OF HONOLULU UP TO 30N.

WARNINGS.

#### GALE.

LOW 1013 MB NEAR 29N 160W MOVING NW 20 KT AND WEAKENING. TROUGH FROM LOW THRU 23N 167W MOVING WEST SLOWLY. WINDS 25 TO 35 KT SEAS 12 TO 22 FT NORTH OF 28N BETWEEN 161W AND 150W. ISOLATED MODERATE TSTMS BETWEEN 19N AND 23N BOUNDED BY 153W ADN 155W...AND NORTH OF 26N BETWEEN 148W AND 150W. FORECAST BY 090600 UTC LOW DISSIPATED.

SIGNIFICANT WEATHER FEATURES AND FORECAST

RIDGE THRU 30N 176W 26N 180 NEARLY STATIONARY.

EAST WINDS 20 TO 30 KT SEAS 8 TO 18 FT IN AREA NORTH OF 20N EAST OF EAST OF 150W. FORECAST AT 100600 UTC EAST WINDS 20 TO 25 KT SEAS 8 TO 12 FT NORTH OF 10N EAST OF 150W.

WINDS 20 KT OR LESS SEAS 8 FT OR LESS OVER REST OF AREA.

ITCZ...ISOLATED MODERATE TSTMS BETWEEN 08N AND 14N BOUNDED BY 152W AND 169W.

PHZ195-090400-OUTLOOK FOR OFFSHORE WATERS .SATURDAY THRU MONDAY...WINDS 20 KT OR LESS SEAS 8 FT OR LESS... EXCEPT WINDS 25 KT SEAS 12 FT IN AREA BETWEEN 08N AND 20N EAST OF 155W.

\$\$

FOR

02/09/01 0000 UTC TO 02/09/01 2359 UTC

FZHW50 PHFO 090150 AMD COASTAL AND OFFSHORE FORECAST FOR HAWAII 4—PM HST THU FEB 08 2001

...AMENDED FOR CANCELLATION OF HIGH SURF ADVISORY... HAWAIIAN COASTAL WATERS WITHIN 100 NAUTICAL MILES INCLUDING THE HAWAIIAN ISLANDS HUMPBACK WHALE NATIONAL MARINE SANCTUARY.

PHZ100-PHZ105-090400-

SYNOPSIS...WEAKENING LOW 450 NM NORTHNORTHWEST OF HONOLULU MOVING NORTHWEST 20 KT.

\$\$ PHZ150-090400-4 PM HST THU FEB 08 2001

- ...THE HIGH SURF ADVISORY FOR NORTH FACING SHORES OF ALL HAWAIIAN ISLANDS IS CANCELLED EFFECTIVE AT 4 PM HST...
- ...CAUTION IS ADVISED FOR ALL HAWAIIAN WATERS DUE TO STRONG AND GUSTY WINDS ASSOCIATED WITH ISOLATED THUNDERSTORMS...

## COASTAL WATERS

- .THIS AFTERNOON...VARIABLE WINDS 10 KT SEAS 2 FT. WINDS SOUTHEAST OVER WATERS EXPOSED TO THE SOUTHEAST. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS.
- .TONIGHT...VARIABLE WINDS 10 KT SEAS 2 FT EXCEPT EAST WINDS 10 TO 15 KT SEAS 2 TO 4 FT WATERS AROUND THE BIG ISLAND. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS.
- .FRIDAY...SOUTHEAST WINDS 10 KT SEAS 2 FT AROUND KAUAI AND OAHU...VARIABLE WINDS 10 KT SEAS 2 FT AROUND MOLOKAI AND LANAI...AND EAST WINDS 10 TO 15 KT SEAS 2 TO 4 FT WATERS AROUND MAUI AND THE BIG ISLAND. A FEW SHOWERS...ISOLATED SHOWERS HEAVY.

\$\$

PHZ130-090400-

CHANNELS BETWEEN THE ISLANDS

- .THIS AFTERNOON...VARIABLE WINDS 15 KT SEAS 4 FT EXCEPT EAST 15 KT SEAS 4 FT IN ALENUIHAHA CHANNEL.
- .TONIGHT THRU FRIDAY...VARIABLE WINDS 15 KT SEAS 4 FT EXCEPT EAST WINDS 15 TO 20 KT SEAS 4 TO 8 FT IN ALENUIHAHA CHANNEL.

\$\$

PHZ190-090400-

OUTLOOK FOR HAWAIIAN WATERS

.SATURDAY THRU MONDAY...EAST TO SOUTHEAST WINDS 15 TO 25 KT SEAS 4 TO 12 FT.

\$\$

PHZ180-090400-

OFFSHORE WATERS WITHIN 1000 NM OF HONOLULU UP TO 30N.



WARNINGS.

GALE.

LOW 1013 MB NEAR 29N 160W MOVING NW 20 KT AND WEAKENING. TROUGH FROM LOW THRU 23N 167W MOVING WEST SLOWLY. WINDS 25 TO 35 KT SEAS 12 TO 22 FT NORTH OF 28N BETWEEN 161W AND 150W. ISOLATED MODERATE TSTMS BETWEEN 19N AND 23N BOUNDED BY 153W ADN 155W...AND NORTH OF 26N BETWEEN 148W AND 150W. FORECAST BY 090600 UTC LOW DISSIPATED.

SIGNIFICANT WEATHER FEATURES AND FORECAST

RIDGE THRU 30N 176W 26N 180 NEARLY STATIONARY.

EAST WINDS 20 TO 30 KT SEAS 8 TO 18 FT IN AREA NORTH OF 20N EAST OF 150W. FORECAST AT 100600 UTC EAST WINDS 20 TO 25 KT SEAS 8 TO 12 FT NORTH OF 10N EAST OF 150W.

WINDS 20 KT OR LESS SEAS 8 FT OR LESS OVER REST OF AREA.

ITCZ...ISOLATED MODERATE TSTMS BETWEEN 08N AND 14N BOUNDED BY 152W AND 169W.

\$\$

PHZ195-090400-

OUTLOOK FOR OFFSHORE WATERS

.SATURDAY THRU MONDAY...WINDS 20 KT OR LESS SEAS 8 FT OR LESS... EXCEPT WINDS 25 KT SEAS 12 FT IN AREA BETWEEN 08N AND 20N EAST OF 155W.

\$\$

FZHW50 PHFO 090351 COASTAL AND OFFSHORE FORECAST FOR HAWAII 6 PM HST THU FEB 08 2001



HAWAIIAN COASTAL WATERS WITHIN 100 NAUTICAL MILES INCLUDING THE HAWAIIAN ISLANDS HUMPBACK WHALE NATIONAL MARINE SANCTUARY.

PHZ100-PHZ105-091000-

SYNOPSIS...TROUGH 300 NM NORTHWEST OF KAUAI MOVING SLOWLY WEST.

\$\$ PHZ150-091000-6 PM HST THU FEB 08 2001

- ...THE HIGH SURF ADVISORY FOR THE NORTH FACING SHORES OF ALL HAWAIIAN ISLANDS HAS BEEN CANCELLED EFFECTIVE AT 4 PM HST...
- ...CAUTION IS ADVISED FOR ALL HAWAIIAN WATERS DUE TO STRONG AND GUSTY WINDS ASSOCIATED WITH ISOLATED THUNDERSTORMS...

COASTAL WATERS

.TONIGHT...VARIABLE WINDS 10 KT SEAS 2 FT EXCEPT WATERS AROUND THE BIG ISLAND WINDS EAST 10 KT SEAS 2 FT. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS.

.FRIDAY THRU SATURDAY...SOUTHEAST WINDS 10 KT SEAS 2 FT EXCEPT WATERS AROUND THE BIG ISLAND EAST WINDS 15 TO 20 KT SEAS 4 TO 8 FT. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS.

\$\$

PHZ130-091000-

CHANNELS BETWEEN THE ISLANDS

.TONIGHT...VARIABLE WINDS 15 KT SEAS 4 FT EXCEPT WINDS EAST 15 KT SEAS 4 FT IN ALENUIHAHA CHANNEL.

.FRIDAY THRU SATURDAY...EAST WINDS 15 KT SEAS 4 FT EXCEPT IN THE ALENUIHAHA CHANNEL EAST WINDS 20 TO 25 KT SEAS 8 TO 12 FT.

\$\$

PHZ190-091000-

OUTLOOK FOR HAWAIIAN WATERS

.SUNDAY THRU TUESDAY...EAST TO SOUTHEAST WINDS 15 TO 25 KT SEAS 4 TO 12 FT.

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PHZ180-091000-

OFFSHORE WATERS WITHIN 1000 NM OF HONOLULU UP TO 30N.

WARNINGS. NONE.

SIGNIFICANT WEATHER FEATURES AND FORECAST

TROUGH THRU 30N 159W 28N 160W 23N 167W MOVING SLOWLY WEST.

RIDGE THRU 30N 176W 27N 180 NEARLY STATIONARY.

EAST WINDS 25 TO 30 KT SEAS 12 TO 18 FT IN AREA EAST OF A LINE THRU 30N 158W 19N 146W. FORECAST AT 101200 UTC EAST WINDS 20 TO 25 KT SEAS 8 TO 12 FT NORTH OF 15N EAST OF 156W.

WINDS 20 KT OR LESS SEAS 8 FT OR LESS OVER REST OF AREA.

ISOLATED MODERATE TSTMS BETWEEN 19N AND 23N BOUNDED BY 153W AND 158W...AND BETWEEN 24N AND 25N BOUNDED BY 165W AND 169W.

ITCZ...ISOLATED MODERATE TSTMS WITHIN 120 NM OF LINE THRU 15N 169W 08N 154W.

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PHZ195-091000-

OUTLOOK FOR OFFSHORE WATERS

.SUNDAY THRU TUESDAY...WINDS 20 KT OR LESS SEAS 8 FT OR LESS... EXCEPT WINDS 25 TO 30 KT SEAS 12 TO 18 FT BETWEEN 12N AND 27N WEST OF 155W AND NORTH OF 25N EAST OF 150W.

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FZHW50 PHFO 090941 COASTAL AND OFFSHORE FORECAST FOR HAWAII 12 AM HST FRI FEB 09 2001 XX

HAWAIIAN COASTAL WATERS WITHIN 100 NAUTICAL MILES INCLUDING THE HAWAIIAN ISLANDS HUMPBACK WHALE NATIONAL MARINE SANCTUARY.

PHZ100-PHZ105-091600-

SYNOPSIS...TROUGH 300 NM NORTHWEST OF KAUAI MOVING SLOWLY WEST.

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PHZ150-091600-

12 AM HST FRI FEB 09 2001

...CAUTION IS ADVISED FOR ALL HAWAIIAN WATERS DUE TO STRONG AND GUSTY WINDS ASSOCIATED WITH ISOLATED THUNDERSTORMS...

#### COASTAL WATERS

.TODAY...SOUTHEAST WINDS 10 KT SEAS 2 FT EXCEPT WATERS AROUND THE BIG ISLAND EAST WINDS 15 TO 20 KT SEAS 4 TO 8 FT. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS.

.FRIDAY THRU SATURDAY...SOUTHEAST WINDS 10 KT SEAS 2 FT EXCEPT WATERS AROUND THE BIG ISLAND EAST WINDS 15 TO 20 KT SEAS 4 TO 8 FT. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS.

\$\$

PHZ130-091600-

CHANNELS BETWEEN THE ISLANDS

.TODAY...EAST WINDS 15 KT SEAS 4 FT EXCEPT IN THE ALENUIHAHA CHANNEL EAST WINDS 20 TO 25 KT SEAS 8 TO 12 FT.

.FRIDAY THRU SATURDAY...EAST WINDS 15 KT SEAS 4 FT EXCEPT IN THE ALENUIHAHA CHANNEL EAST WINDS 20 TO 25 KT SEAS 8 TO 12 FT.

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PHZ190-091600-

OUTLOOK FOR HAWAIIAN WATERS

.SUNDAY THRU TUESDAY...EAST TO SOUTHEAST WINDS 15 TO 25 KT SEAS 4 TO 12 FT.

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PHZ180-091600-

OFFSHORE WATERS WITHIN 1000 NM OF HONOLULU UP TO 30N.

WARNINGS. NONE.

SIGNIFICANT WEATHER FEATURES AND FORECAST

TROUGH THRU 30N 162W 20N 172W MOVING WEST SLOWLY. ISOLATED MODERATE TSTMS IN AREA BOUNDED BY 10N 170W 25N 170W 28N 156W 14N 150W 10N 154W.

EAST WINDS 25 TO 30 KT SEAS 12 TO 18 FT IN AREA BETWEEN 08N AND 20N EAST OF 155W.

WINDS 20 KT OR LESS SEAS 8 FT OR LESS OVER REST OF AREA.

\$\$

PHZ195-091600-

OUTLOOK FOR OFFSHORE WATERS

- .SUNDAY AND MONDAY...WINDS 20 KT OR LESS SEAS 8 FT OR LESS...EXCEPT EAST WINDS 25 TO 30 KT SEAS 12 TO 18 FT BETWEEN 10N AND 22N EAST OF 155W.
- .TUESDAY...WINDS 20 KT OR LESS SEAS 8 FT OR LESS...EXCEPT EAST WINDS



20 TO 25 KT SEAS 8 TO 12 FT BETWEEN 10N AND 18N EAST OF 155W...AND NORTHEAST WINDS 25 TO 30 KT SEAS 12 TO 18 FT BETWEEN 20N AND 30N BOUNDED BY 160W AND 170W.

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FZHW50 PHFO 091541 COASTAL AND OFFSHORE FORECAST FOR HAWAII 6 AM HST FRI FEB 09 2001

HAWAIIAN COASTAL WATERS WITHIN 100 NAUTICAL MILES INCLUDING THE HAWAIIAN ISLANDS HUMPBACK WHALE NATIONAL MARINE SANCTUARY.

PHZ100-PHZ105-092200-

SYNOPSIS...TROUGH 400 NM NORTHWEST OF KAUAI MOVING WEST SLOWLY.

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PHZ150-092200-

6 AM HST FRI FEB 09 2001

...CAUTION IS ADVISED FOR WATERS AROUND KAUAI AND OAHU DUE TO STRONG AND GUSTY WINDS ASSOCIATED WITH ISOLATED THUNDERSTORMS...

### COASTAL WATERS

- .TODAY...SOUTHEAST WINDS 10 KT SEAS 2 FT EXCEPT WATERS AROUND THE BIG ISLAND EAST WINDS 15 TO 20 KT SEAS 4 TO 8 FT. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS.
- .FRIDAY THRU SATURDAY...SOUTHEAST WINDS 10 KT SEAS 2 FT EXCEPT WATERS AROUND THE BIG ISLAND EAST WINDS 15 TO 20 KT SEAS 4 TO 8 FT. SCATTERED SHOWERS AND ISOLATED THUNDERSHOWERS.

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PHZ130-092200-

CHANNELS BETWEEN THE ISLANDS

- .TODAY...EAST WINDS 15 KT SEAS 4 FT EXCEPT IN THE ALENUIHAHA CHANNEL EAST WINDS 20 TO 25 KT SEAS 8 TO 12 FT.
- .FRIDAY THRU SATURDAY...EAST WINDS 15 KT SEAS 4 FT EXCEPT IN THE ALENUIHAHA CHANNEL EAST WINDS 20 TO 25 KT SEAS 8 TO 12 FT.

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PHZ190-092200-

OUTLOOK FOR HAWAIIAN WATERS

.SUNDAY THRU TUESDAY...EAST TO SOUTHEAST WINDS 15 TO 25 KT SEAS 4 TO 12 FT.

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PHZ180-092200-

OFFSHORE WATERS WITHIN 1000 NM OF HONOLULU UP TO 30N.

WARNINGS. NONE.

SIGNIFICANT WEATHER FEATURES AND FORECAST

TROUGH THRU 30N 164W 20N 170W MOVING WEST SLOWLY. ISOLATED MODERATE TSTMS IN AREA BOUNDED BY 12N 168W 20N 168W 30N 160W 14N 152W...AND WITHIN 90 NM OF 25N 167W.

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EAST WINDS 25 TO 30 KT SEAS 12 TO 18 FT IN AREA BETWEEN 08N AND 28N EAST OF 155W.

WINDS 20 KT OR LESS SEAS 8 FT OR LESS OVER REST OF AREA.

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PHZ195-092200-

OUTLOOK FOR OFFSHORE WATERS

.SUNDAY..WINDS 20 KT OR LESS SEAS 8 FT OR LESS...EXCEPT EAST WINDS 25 TO 30 KT SEAS 12 TO 18 FT BETWEEN 10N AND 25N EAST OF 155W...MONDAY AND TUESDAY...WINDS 20 KT OR LESS SEAS 8 FT OR LESS...EXCEPT EAST WINDS 20 TO 25 KT SEAS 8 TO 12 FT BETWEEN 10N AND 20N EAST OF 155W...AND NORTHEAST WINDS 25 TO 30 KT SEAS 12 TO 18 FT BETWEEN 20N AND 30N BOUNDED BY 155W AND 175W.

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FZHW50 PHFO 091643 AMD COASTAL AND OFFSHORE FORECAST FOR HAWAII...AMENDED 6:15 AM HST FRI FEB 09 2001

...AMENDMENT...ADD SMALL CRAFT ADVISORY AND CAUTIONARY FOR HAWAIIAN WATERS...

HAWAIIAN COASTAL WATERS WITHIN 100 NAUTICAL MILES INCLUDING THE HAWAIIAN ISLANDS HUMPBACK WHALE NATIONAL MARINE SANCTUARY.

PHZ100-PHZ105-092200-

SYNOPSIS...TROUGH 400 NM NORTHWEST OF KAUAI MOVING WEST SLOWLY.

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PHZ150-092200-

6:15 AM HST FRI FEB 09 2001



- ... SMALL CRAFT ADVISORY FOR HAWAIIAN WATERS FROM MAUI EASTWARD...
- ..CAUTION IS ADVISED FOR GUSTY TRADE WINDS REMAINING HAWAIIAN WATERS...
- ..CAUTION IS ADVISED FOR WATERS AROUND KAUAI AND WATERS SOUTH OF ISLANDS FROM KAUAI TO MAUI DUE TO STRONG AND GUSTY WINDS ASSOCIATED WITH ISOLATED THUNDERSTORMS...

## COASTAL WATERS

.TODAY...EAST WINDS TO 20 KT SEAS TO 8 FT EXCEPT WATERS AROUND MAUI AND THE BIG ISLAND EAST WINDS 20 TO 25 KT SEAS 8 TO 12 FT. SCATTERED SHOWERS AND ISOLATED THUNDERSTORMS.

.FRIDAY THRU SATURDAY...EAST WINDS TO 20 KT SEAS TO 8 FT EXCEPT WATERS AROUND MAUI AND THE BIG ISLAND EAST WINDS 20 TO 25 KT SEAS 8 TO 12 FT. SCATTERED SHOWERS AND ISOLATED THUNDERSTORMS.

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PHZ130-092200-



CHANNELS BETWEEN THE ISLANDS

.TODAY...EAST WINDS 25 KT SEAS 12 FT EXCEPT IN THE ALENUIHAHA CHANNEL EAST WINDS 25 TO 30 KT SEAS 12 TO 18 FT.

.FRIDAY THRU SATURDAY...EAST WINDS 25 KT SEAS 12 FT EXCEPT IN THE ALENUIHAHA CHANNEL EAST WINDS 25 TO 30 KT SEAS 12 TO 18 FT.

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PHZ190-092200-

OUTLOOK FOR HAWAIIAN WATERS

.SUNDAY THRU TUESDAY...EAST TO SOUTHEAST WINDS 15 TO 25 KT SEAS 4 TO 12 FT.

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PHZ180-092200-

OFFSHORE WATERS WITHIN 1000 NM OF HONOLULU UP TO 30N.

WARNINGS. NONE.

SIGNIFICANT WEATHER FEATURES AND FORECAST

TROUGH THRU 30N 164W 20N 170W NEARLY STATIONARY. ISOLATED MODERATE TSTMS IN AREA BOUNDED BY 12N 168W 20N 168W 30N 160W 14N 152W...AND WITHIN 90 NM OF 25N 167W.

EAST WINDS 25 TO 30 KT SEAS 12 TO 18 FT IN AREA BETWEEN 08N AND 28N EAST OF 157W.

WINDS 20 KT OR LESS SEAS 8 FT OR LESS OVER REST OF AREA.

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PHZ195-092200-

OUTLOOK FOR OFFSHORE WATERS

.SUNDAY..WINDS 20 KT OR LESS SEAS 8 FT OR LESS...EXCEPT EAST WINDS 25 TO 30 KT SEAS 12 TO 18 FT BETWEEN 10N AND 25N EAST OF 157W.
.MONDAY AND TUESDAY...WINDS 20 KT OR LESS SEAS 8 FT OR LESS...EXCEPT EAST WINDS 20 TO 25 KT SEAS 8 TO 12 FT BETWEEN 10N AND 20N EAST OF 157W...AND NORTHEAST WINDS 25 TO 30 KT SEAS 12 TO 18 FT BETWEEN 20N AND 30N BOUNDED BY 155W AND 175W.

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FZHW50 PHFO 092158 COASTAL AND OFFSHORE FORECAST FOR HAWAII 12 PM HST FRI FEB 09 2001

HAWAIIAN COASTAL WATERS WITHIN 100 NAUTICAL MILES INCLUDING THE HAWAIIAN ISLANDS HUMPBACK WHALE NATIONAL MARINE SANCTUARY.

PHZ100-PHZ105-100400-

SYNOPSIS...SURFACE TROUGH NEAR KAUAI NEARLY STATIONARY.

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PHZ150-100400-

12 PM HST FRI FEB 09 2001

...SMALL CRAFT ADVISORY FOR FOR HAWAIIAN WATERS FROM MAUI EASTWARD FOR STRONG AND GUSTY TRADE WINDS...



- ...CAUTION IS ADVISED FOR GUSTY EAST AND SOUTHEAST WINDS REMAINING HAWAIIAN WATERS...
- ...CAUTION IS ADVISED FOR WATERS AROUND KAUAI AND SOUTH OF THE KAUAI CHANNEL DUE TO GUSTY WINDS ASSOCIATED WITH STRONG THUNDERSTORMS...

### COASTAL WATERS

.THIS AFTERNOON...EAST AND SOUTHEAST WINDS TO 20 KT SEAS TO 8 FT EXCEPT WATERS EAST OF MOLOKAI EAST WINDS 20 TO 25 KT SEAS 8 TO 12 FT. SCATTERED SHOWERS. THUNDERSTORMS KAUAI CHANNEL AND NEAR KAUAI..TONIGHT THROUGH SATURDAY... EAST AND SOUTHEAST WINDS 20 TO 25 KT SEAS 8 TO 12 FT. SCATTERED SHOWERS. ISOLATED THUNDERSTORMS NEAR KAUAI.

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PHZ130-100400-

CHANNELS BETWEEN THE ISLANDS

.TODAY...EAST WINDS 25 KT SEAS 12 FT EXCEPT IN THE PAILOLO AND ALENUIHAHA CHANNELS EAST WINDS TO 30 KT SEAS TO 18 FT.

.TONIGHT THROUGH SATURDAY...EAST WINDS 25 KT SEAS 12 FT EXCEPT IN THE PAILOLO AND ALENUIHAHA CHANNELS EAST WINDS TO 30 KT SEAS TO 18 FT.

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PHZ190-100400-

OUTLOOK FOR HAWAIIAN WATERS

.SUNDAY THROUGH TUESDAY...EAST TO SOUTHEAST WINDS 15 TO 25 KT SEAS 4 TO 12 FT.

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PHZ180-100400-

OFFSHORE WATERS WITHIN 1000 NM OF HONOLULU UP TO 30N.

WARNINGS. NONE.

SIGNIFICANT WEATHER FEATURES AND FORECAST

TROUGH THRU 30N 164W 20N 170W NEARLY STATIONARY. ISOLATED MODERATE TSTMS WITHIN 60 NM OF TROUGH SOUTH OF 26N.

SECOND TROUGH THRU 23N 156W 17N 160W NEARLY STATIONARY. MODERATE TSTMS WITHIN AREA BOUNDED BY 13N 165W 15N 167W 25N 161W 23N 156W 13N 158W 13N 165W.

EAST WINDS 25 TO 30 KT SEAS 12 TO 18 FT IN AREA BETWEEN 10N AND 28N EAST OF 157W.

WINDS 20 KT OR LESS SEAS 8 FT OR LESS OVER REST OF AREA.

ITCZ...ISOLATED MODERATE TSTMS WITHIN 60 NM OF LINE 05N 163W 05N 150W.

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PHZ195-100400-

OUTLOOK FOR OFFSHORE WATERS

.SUNDAY THROUGH TUESDAY...WINDS 20 KT OR LESS SEAS 8 FT OR LESS...EXCEPT EAST WINDS 25 KT SEAS 12 FT BETWEEN 10N AND 20N EAST



OF 157W... AND ON MONDAY AND TUESDAY NORTHEAST WINDS 25 TO 30 KT SEAS 12 TO 18 FT BETWEEN 20N AND 30N BOUNDED BY 155W AND 175W.

FOR

02/10/01 0000 UTC TO 02/10/01 0600 UTC

FZHW50 PHFO 100341 COASTAL AND OFFSHORE FORECAST FOR HAWAII 6 PM HST FRI FEB 09 2001

HAWAIIAN COASTAL WATERS WITHIN 100 NAUTICAL MILES INCLUDING THE HAWAIIAN ISLANDS HUMPBACK WHALE NATIONAL MARINE SANCTUARY.

PHZ100-PHZ105-101000-

SYNOPSIS...SURFACE TROUGH NEAR MAUI NEARLY STATIONARY.

\$\$ PHZ150-101000-6 PM HST FRI FEB 09 2001

- ...SMALL CRAFT ADVISORY FOR FOR HAWAIIAN WATERS FROM MAUI EASTWARD FOR STRONG AND GUSTY TRADE WINDS...
- ...CAUTION IS ADVISED FOR GUSTY EAST AND SOUTHEAST WINDS REMAINING HAWAIIAN WATERS...
- ...CAUTION IS ADVISED FOR WATERS AROUND KAUAI AND SOUTH OF THE KAUAI CHANNEL DUE TO GUSTY WINDS ASSOCIATED WITH STRONG THUNDERSTORMS...

#### COASTAL WATERS

.TONIGHT...EAST AND SOUTHEAST WINDS TO 20 KT SEAS TO 8 FT EXCEPT WATERS EAST OF MOLOKAI EAST WINDS TO 25 KT SEAS 12 FT.

SCATTERED SHOWERS. THUNDERSTORMS KAUAI CHANNEL AND NEAR KAUAI.
.SATURDAY THROUGH SUNDAY...EAST AND SOUTHEAST WINDS 15 TO 20 KT SEAS 4 TO 8 FT EXCEPT WATERS EAST OF MOLOKAI EAST WINDS TO 25 KT SEAS TO 12 FT. SCATTERED WINDWARD SHOWERS WITH ISOLATED THUNDERSTORMS NEAR KAUAI.

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PHZ130-101000-

CHANNELS BETWEEN THE ISLANDS

.TONIGHT...EAST WINDS 20 TO 25 KT SEAS 8 TO 12 FT EXCEPT IN THE PAILOLO AND ALENUIHAHA CHANNELS EAST WINDS TO 30 KT SEAS TO 18 FT. .SATURDAY THROUGH SUNDAY...EAST WINDS 20 TO 25 KT SEAS TO 8 TO 12 FT EXCEPT IN THE PAILOLO AND ALENUIHAHA CHANNELS EAST WINDS TO 30 KT SEAS TO 18 FT.

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PHZ190-101000-

OUTLOOK FOR HAWAIIAN WATERS

.MONDAY THROUGH WEDNESDAY...EAST TO SOUTHEAST WINDS 15 TO 25 KT SEAS 4 TO 12 FT.

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PHZ180-101000-

OFFSHORE WATERS WITHIN 1000 NM OF HONOLULU UP TO 30N.



WARNINGS. NONE.

SIGNIFICANT WEATHER FEATURES AND FORECAST

TROUGH THRU 30N 161W 25N 164W 17S 166W NEARLY STATIONARY. SCATTERED SHOWERS AND ISOLATED MODERATE TSTMS WITHIN 250 NM EAST OF TROUGH.

TROUGH THRU 24N 155W 17N 158W NEARLY STATIONARY. SCATTERED SHOWERS AND A FEW MODERATE TSTMS WITHIN 120 NM OF TROUGH.

RIDGE THRU 30N 174W 28N 178W NEARLY STATIONARY.

EAST WINDS 25 TO 30 KT SEAS 12 TO 18 FT IN AREA BETWEEN 10N AND 28N EAST OF 157W.

BY 111200 UTC FORECAST FRONT THRU 30N 162W 28N 163W THENCE A SHEARLINE THRU 24N 164W 20N 168W. FORECAST WINDS 20 TO 30 KT SEAS 8 TO 18 FT WITHIN 200 NM AHEAD OF FRONT AND SHEARLINE NORTH OF 26N.

WINDS 20 KT OR LESS SEAS 8 FT OR LESS OVER REST OF AREA.

ITCZ...ISOLATED MODERATE TSTMS WITHIN 60 NM OF LINES THRU 06N 161W 05N 151W.

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PHZ195-101000-OUTLOOK FOR OFFSHORE WATERS

.MONDAY THROUGH WEDNESDAY...WINDS 20 KT OR LESS SEAS 8 FT OR LESS EXCEPT NORTHEAST WINDS 25 TO 30 KT SEAS 12 TO 18 FT FROM 23N AND 30N BETWEEN 157W AND 165W SPREADING TO BETWEEN 150W TO 165W ON TUESDAY AND WEDNESDAY.

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FOR

02/08/01 0000 UTC TO 02/08/01 2359 UTC

FZHW70 PHFO 080625 MWSHI HIZ001>007-081830-

HIGH SURF ADVISORY NUMBER 7 NATIONAL WEATHER SERVICE HONOLULU HI 830 PM HST WED FEB 7 2001

...A HIGH SURF ADVISORY IS IN EFFECT FOR THE NORTH AND EAST SHORES OF ALL HAWAIIAN ISLANDS...

A LOW ABOUT 350 MILES NORTH NORTHWEST OF HONOLULU CONTINUES TO SEND NORTH TO NORTHEAST SWELLS TOWARD THE ISLANDS. SURF TO 6 FEET IS EXPECTED ALONG EAST FACING SHORES AND SHOULD BEGIN TO SLOWLY SUBSIDE OVERNIGHT... AFTER HIGH TIDE.

IN ADDITION... A NORTHWEST SWELL IS PRODUCING SURF OF 8 TO 12 FEET WITH OCCASIONAL HIGHER SETS FOR THE NORTH SHORES OF ALL ISLANDS. THIS SWELL IS EXPECTED TO CONTINUE THRU MOST OF THURSDAY.

HIGH SURF IS DANGEROUS SURF. BEACHGOERS ARE THEREFORE URGED TO BE CAUTIOUS.

THE NEXT SCHEDULED ADVISORY WILL BE AT 830 AM THURSDAY OR SOONER IF NEEDED.

OLSON NATIONAL WEATHER SERVICE HONOLULU

FZHW70 PHFO 081758 MWSHI HIZ001>007-090630-

HIGH SURF ADVISORY NUMBER 8 NATIONAL WEATHER SERVICE HONOLULU HI 8 AM HST THU FEB 8 2001

- ...A HIGH SURF ADVISORY IS IN EFFECT FOR THE NORTH SHORES OF ALL HAWAIIAN ISLANDS...
- ...THE HIGH SURF ADVISORY FOR THE EAST SHORES OF ALL ISLANDS IS CANCELED AT 8 AM HST...

SURF ALONG THE NORTH SHORES OF KAUAI AND OAHU WILL BE 6 TO 10 FEET TODAY. SURF ALONG THE NORTH SHORES OF THE OTHER ISLANDS WILL BE SLIGHTLY LOWER.

SORF ALONG THE EAST SHORES OF ALL ISLANDS IS BELOW 6 FEET. A HIGH SURF ADVISORY IS THEREFORE NO LONGER NEEDED FOR THESE SHORES.

HIGH SURF IS DANGEROUS SURF. BEACHGOERS ARE THEREFORE URGED TO BE CAUTIOUS.

THE NEXT ADVISORY WILL BE AT 830 PM THURSDAY OR SOONER IF NEEDED.

CRAIG NATIONAL WEATHER SERVICE HONOLULU

02/09/01 0000 UTC TO 02/09/01 2359 UTC

FZHW70 PHFO 090132 MWSHI HIZ001>007-090630-

HIGH SURF ADVISORY CANCELLATION NATIONAL WEATHER SERVICE HONOLULU HI 4 PM HST THU FEB 8 2001

... THE HIGH SURF ADVISORY FOR THE NORTH SHORES OF ALL HAWAIIAN ISLANDS IS CANCELED AT 4 PM HST...

SURF ALONG THE NORTH SHORES HAS LOWERED BELOW 10 FEET AND THE HIGH SURF ADVISORY IS NO LONGER NEEDED.

THE HIGHER THAN NORMAL SURF WILL CONTINUE TO BE DANGEROUS HOWEVER...SO BEACHGOERS ARE URGED TO EXERCISE CAUTION.

THIS IS THE LAST ADVISORY ON THIS EVENT.

CRAIG NATIONAL WEATHER SERVICE HONOLULU

FOR

02/10/01 0000 UTC TO 02/10/01 0600 UTC

FZHW70 PHFO 100049 MWSHI PHZ150-100050

MARINE WEATHER STATEMENT NATIONAL WEATHER SERVICE HONOLULU HI 250 PM HST FRI FEB 9 2001

...THE SPECIAL MARINE WARNING FOR THE WATERS AROUND KAUAI IS CANCELED AT 250 PM HST...

THUNDERSTORMS HAVE LARGELY DISSIPATED TO THE NORTH AND NORTHEAST OF KAUAI AND ARE NO LONGER CAUSING SEVERE WINDS OR WEATHER CONDITIONS. THEREFORE THE SPECIAL MARINE WARNING IS CANCELED.

THIS IS THE LAST ISSUANCE ON THIS EVENT.

FARRELL NATIONAL WEATHER SERVICE HONOLULU

FZHW70 PHFO 100049 MWSHI PHZ150-100050-

MARINE WEATHER STATEMENT NATIONAL WEATHER SERVICE HONOLULU HI 250 PM HST FRI FEB 9 2001

...THE SPECIAL MARINE WARNING FOR THE WATERS AROUND KAUAI IS CANCELED AT 250 PM HST...

THUNDERSTORMS HAVE LARGELY DISSIPATED TO THE NORTH AND NORTHEAST OF KAUAI AND ARE NO LONGER CAUSING SEVERE WINDS OR WEATHER CONDITIONS. THEREFORE THE SPECIAL MARINE WARNING IS CANCELED.

THIS IS THE LAST ISSUANCE ON THIS EVENT.

FARRELL NATIONAL WEATHER SERVICE HONOLULU



FOR

02/08/01 0000 UTC TO 02/08/01 2359 UTC

FZHW50 PHFO 072253 COR COASTAL AND OFFSHORE FORECAST FOR HAWAII 12 PM HST WED FEB 07 2001

HAWAIIAN COASTAL WATERS WITHIN 100 NAUTICAL MILES INCLUDING THE HAWAIIAN ISLANDS HUMPBACK WHALE NATIONAL MARINE SANCTUARY.

PHZ100-PHZ105-080400-

SYNOPSIS...LOW 350 NM NORTHEAST OF HONOLULU MOVING WEST SLOWLY.

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PHZ150-080400-

12 PM HST WED FEB 07 2001

- ...HIGH SURF ADVISORY REMAINS IN EFFECT FOR NORTH AND EAST FACING SHORES OF ALL HAWAIIAN ISLANDS...
- ...CAUTION IS ADVISED IN KAHULUI AND HILO HARBORS DUE TO NORTHEAST SWELL THAT MAY CAUSE HARBOR SURGES...

#### COASTAL WATERS

- THIS AFTERNOON...VARIABLE WINDS 10 KT SEAS 2 FT. A FEW SHOWERS. NORTHWEST SWELL RISING TO NEAR 7 FT. THE NORTHEAST SWELL SLOWLY SUBSIDING.
- .TONIGHT AND THURSDAY...VARIABLE WINDS 10 KT SEAS 2 FT EXCEPT EAST WINDS 10 KT SEAS 2 FT AROUND THE BIG ISLAND THURSDAY. ISOLATED HEAVY SHOWERS WINDWARD WATERS OF THE BIG ISLAND TONIGHT OTHERWISE A FEW SHOWERS. NORTHWEST SWELL NEAR 5 FT.

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PHZ130-080400-

CHANNELS BETWEEN THE ISLANDS

- .THIS AFTERNOON...VARIABLE WINDS 15 KT SEAS 4 FT.
- .TONIGHT AND THURSDAY...VARIABLE WINDS 15 KT SEAS 4 FT EXCEPT EAST WINDS 15 KT SEAS 4 FT IN ALENUIHAHA CHANNEL.

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PHZ190-080400-

OUTLOOK FOR HAWAIIAN WATERS

.FRIDAY THRU SUNDAY...EAST WINDS 10 TO 15 KT SEAS 2 TO 4 FT.

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PHZ180-080400-

OFFSHORE WATERS WITHIN 1000 NM OF HONOLULU UP TO 30N.

WARNINGS.

# CORRECTION...

GALE. LOW 1009 MB NEAR 26N 155W MOVING WEST SLOWLY. TROUGH THRU 30N 153W. WINDS 25 TO 35 KT SEAS 12 TO 22 FT WITHIN 350 NM NORTH QUADRANT OF LOW. ELSEWHERE NORTH OF 26N BETWEEN 150W AND 160W WINDS

20 TO 30 KT SEAS 8 TO 18 FT. ISOLATED MODERATE TSTMS IN AREA BOUNDED BY 30N 154W 26N 154W 23N 150W 30N 148W AND WITHIN 60 NM OF LINE THRU 28N 147W 22N 145W 21N 149W. FORECAST BY 090600 UTC LOW 1016MB 29N 160W AND ASSOCIATED WINDS 20 KT OR LESS SEAS 8 FT OR LESS.

SIGNIFICANT WEATHER FEATURES AND FORECAST

WINDS 20 KT OR LESS SEAS 8 FT OR LESS OVER REST OF AREA.

ITCZ...ISOLATED MODERATE TSTMS BETWEEN 05N AND 08N BOUNDED BY 162W AND 172W.

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PHZ195-080400-

OUTLOOK FOR OFFSHORE WATERS

.FRIDAY THROUGH SUNDAY...WINDS 20 KT OR LESS SEAS 8 FT OR LESS... EXCEPT WINDS 25 KT SEAS 12 FT IN AREA NORTH OF 25N EAST OF 155W.

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FZHW50 PHFO 080352 COASTAL AND OFFSHORE FORECAST FOR HAWAII 6 PM HST WED FEB 07 2001

HAWAIIAN COASTAL WATERS WITHIN 100 NAUTICAL MILES INCLUDING THE HAWAIIAN ISLANDS HUMPBACK WHALE NATIONAL MARINE SANCTUARY.

PHZ100-PHZ105-081000-

SYNOPSIS...LOW 350 NM NORTH NORTHEAST OF HONOLULU MOVING NORTHWEST SLOWLY.

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PHZ150-081000-

- 6 PM HST WED FEB 07 2001
- ...HIGH SURF ADVISORY REMAINS IN EFFECT FOR NORTH AND EAST FACING SHORES OF ALL HAWAIIAN ISLANDS...
- ...CAUTION IS ADVISED IN KAHULUI AND HILO HARBORS DUE TO NORTHEAST SWELL THAT MAY CAUSE HARBOR SURGES...

## COASTAL WATERS

- .TONIGHT...VARIABLE WINDS 10 KT SEAS 2 FT EXCEPT SOUTHEAST WINDS 15 KT SEAS 4 FT AROUND THE BIG ISLAND. A FEW SHOWERS VICINITY OF THE BIG ISLAND. NORTHWEST SWELL NEAR 6 FT. THE NORTHEAST SWELL SLOWLY SUBSIDING.
- .THURSDAY AND THURSDAY NIGHT...VARIABLE WINDS 10 KT SEAS 2 FT EXCEPT EAST TO SOUTHEAST WINDS 10 TO 15 KT SEAS 2 TO 4 FT AROUND THE BIG ISLAND AND MAUI. ISOLATED HEAVY SHOWERS WINDWARD WATERS OF THE BIG ISLAND AND MAUI THURSDAY. NORTHWEST SWELL SLOWLY DIMINISHING.
- .FRIDAY...VARIABLE WINDS 10 KT SEAS 2 FT EXCEPT EAST WINDS 15 TO 20 KT AROUND MAUI AND THE BIG ISLAND. A FEW WINDWARD SHOWERS OFF MAUI AND THE BIG ISLANDD.

(48)